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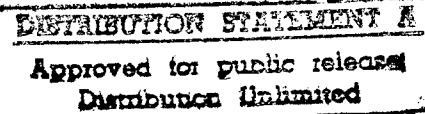
# **WATERBORNE COMMERCE OF THE UNITED STATES**

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Calendar Year 1990

**Part 3—  
Waterways and Harbors  
Great Lakes**

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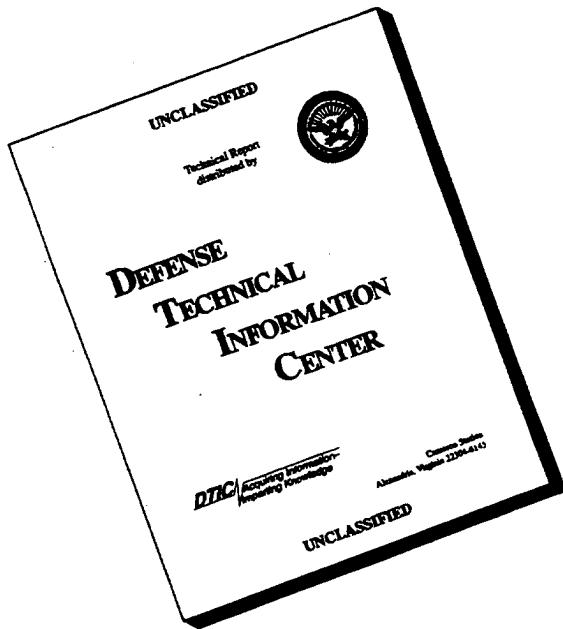


Compiled under the supervision of  
the Water Resources Support Center  
U.S. Army Corps of Engineers  
Fort Belvoir, Virginia

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**PART 4**

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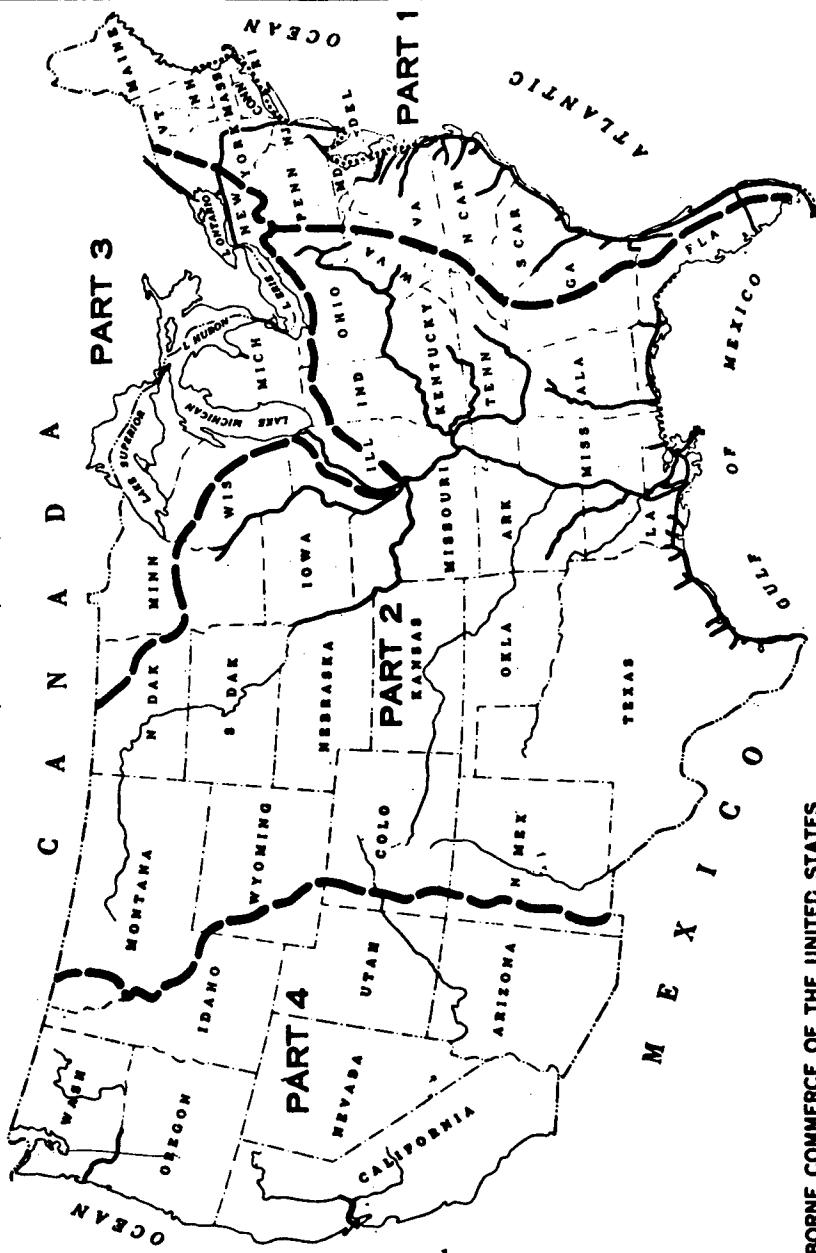
SAILING DIRECTIONS

Geographical Areas Covered by  
Waterborne Commerce Statistics Publications

of the

**DEPARTMENT OF THE ARMY CORPS OF ENGINEERS**

(Heavy broken lines indicate the limits embraced by  
each part of the five-part series)

**INLAND WATERWAYS LEGEND**

— PRINCIPAL IMPROVED WATERWAYS

..... (IN OPEN WATER)

**PART 4**

PACIFIC OCEAN

**WATERBORNE COMMERCE OF THE UNITED STATES**

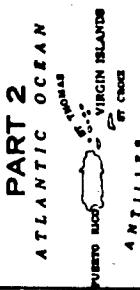
Part 1 - Atlantic Coast

Part 2 - Gulf Coast, Mississippi River System and Antilles

Part 3 - Great Lakes

Part 4 - Pacific Coast, Alaska and Hawaii

Part 5 - Waterborne Commerce of the United States  
(National Summary)

**PART 5**

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## Introduction

### General

*Waterborne Commerce of the United States, WCUS, Part 3* is one of a series of publications which provide statistics on the foreign and domestic waterborne commerce moved on the United States waters. WCUS, Parts 1-4 present detailed data on the movements of vessels and commodities at the ports and harbors and on the waterways and canals of the United States, the Commonwealth of Puerto Rico, and the Virgin Islands.

The publication numbers and the geographical areas covered in **WCUS, Parts 1-5** are detailed below:

**WCUS, Part 1 Atlantic Coast**

**WCUS, Part 2 Gulf Coast, Mississippi River System and Antilles**

**WCUS, Part 3 Great Lakes**

**WCUS, Part 4 Pacific Coast, Alaska and Hawaii**

**WCUS, Part 5 National Summaries**

### Legal Authority

The legal authority for the collection, compilation and publication of waterborne commerce statistics by the Army Corps of Engineers is Section 11 of the Rivers and Harbors Appropriations Act of 1922 (42 Stat. 1043), as amended, and codified in 33 U.S.C. 555 and provides the following:

Owners, agents, masters, and clerks of vessels and other craft plying upon the navigable waters of the United States, and all individuals and corporations engaged in transporting their own goods upon the navigable waters of the United States, shall furnish such statements relative to vessels, passengers, freight and tonnage as may be required by the Secretary of the Army: Provided. That this provision shall not apply to those rafting logs, except upon a direct request upon the owner to

furnish specific information.

Every person or persons offending against the provisions of this section shall, for each and every offense, be liable to a fine of not more than \$5,000 or imprisonment not exceeding two months, to be enforced in any district court of the United States within whose territorial jurisdiction such offense may have been committed. In addition, the Secretary may assess a civil penalty of up to \$2,500 per violation against any person or entity, that fails to provide timely, accurate statements required to be submitted pursuant to this section by the Secretary.

The vessel and commodity movement information collected and compiled is designed to meet the data requirements of the Department of the Army in connection with the duties assigned by Congress. These data also provide valuable information for other governmental departments, commercial and shipping concerns and others interested in the U.S. transportation industry.

### Domestic Commerce

Contiguous and non-contiguous states and territories constitute the geographical space upon which domestic commerce may be transported. This includes Hawaii, Alaska, the 48 contiguous states, Puerto Rico and the Virgin Islands, Guam, American Samoa, Wake Island and the U.S. Trust Territories.

The waterborne traffic movements are reported to the Corps of Engineers by all vessel operators of record on ENG Forms 3925 and 3925b (or equivalent) approved by the Office of Management and Budget under the Paperwork Reduction Act (44 U.S.C. 3510(a)). The reports are generally submitted on the basis of individual vessel movements completed. For movements

with cargo, the point of loading and the point of unloading of each individual commodity must be delineated. Cargo moved for the military agencies in commercial vessels is reported as ordinary commercial cargo; military cargo movements in Department of Defense vessels are not collected.

In summarizing the domestic commerce certain movements are excluded: Cargo carried on general ferries; coal and petroleum products loaded from shore facilities directly into bunkers of vessels for fuel; and insignificant amounts of government materials (less than 100 tons) moved on government owned equipment in support of Corps projects.

### Foreign Commerce

Foreign commerce is waterborne import and export traffic between the United States, Puerto Rico and the Virgin Islands and any foreign country. These statistics do not include traffic between Guam, Wake Island and American Samoa and any other foreign country.

Foreign commerce data are furnished to the Corps of Engineers by the Bureau of the Census under a working arrangement sponsored by the Office of Management and Budget. The data are confined to vessel movements by water and are reconcilable with published reports of the Bureau of Census with the exception of LOOP Oil Terminal and Skagway Wharf reports which are manually entered as imports by the Corps of Engineers, and with the exception of coal exports to Canada from the ports of Ashtabula, Conneaut, Sandusky, and Toledo. Coal exports from these four ports were furnished to WCSC by Resource Data International, (RDI)\* Inc who compiled this data from Bills of Lading filed at these ports.

The Republic of Panama is considered a foreign country. However, individual vessel movements with origin and destination at United States ports traveling via the Panama Canal are considered domestic traffic. Alaskan crude oil (origin at Valdez, AK) shipped via the Panama

pipeline (west to east) and destined for gulf and east coast ports is also considered domestic commerce.

Import and export shipments for use of the United States Armed Forces abroad are not reported to WCSC. Beginning with calendar year 1989 shipments under the military assistance program of the Department of Defense are included in the statistics under the appropriate commodity code. In prior years these cargoes were given as commodity code 9999.

### Commodity Descriptions

The first two digits of the WCSC publication codes correspond with the Lock Performance Monitoring System, LPMS, commodity codes. Both LPMS and WCSC codes were standardized to reflect the hierarchical structure of the Standard Industrial Trade Classification (SITC) Revision 3 commodity codes. SITC, Rev. 3 commodity codes conform to the Harmonized Commodity Description and Coding System (HS). Using SITC, Rev. 3 allows direct comparisons with U.S. imports and exports, as well as, with commodity movements of other countries.

### Tonnage

The tonnage figures provided throughout the Waterborne Commerce of the United States (WCUS) Parts 1-5 represent short tons (2000 pounds). Tonnage figures are rounded to the nearest 1000 tons.

A zero represents less than 500 tons but more than zero. Dashes mean zero tons. Columns and rows may not add up exactly to totals and subtotals due to rounding.

Some freight tables have "Total" and "Grand Total". The "Total" means that in some cases it is the total for domestic or foreign and Canadian traffic. The "Grand Total" specifically represents the sum total of all the different traffics, including all domestic and foreign traffic. If a particular column or traffic type has only dashes and zeroes in the tonnage fields for that entire freight table then that column (traffic type) will not print.

\*Resource Data International, Inc  
1320 Pearl St.  
Boulder, CO 80302  
Telephone: 303-444-7788  
Telefax: 303-444-1286

### Ton-Miles

For lakewise domestic movements, ton-miles equal the cargo tonnage times the distance between the U.S. Great Lakes ports. For overseas imports and exports, foreign ton-miles are computed by multiplying the cargo tonnage by the miles carried on U.S. waterways and channels. Ton-miles are rounded to the nearest 1000 ton-miles. The ton-mile data appears in the publication by traffic type at the end of a particular freight table for a given project. Since there are columns that will not print (see tonnage above) the ton-miles associated with these columns will likewise not be included in the total ton-miles for that particular freight table. They will be included in "Ton-miles All Traffic" at the end of the project.

### Trips

A trip is a vessel movement. For self-propelled vessels, a trip is logged between every point of departure and every point of arrival. For loaded barges, a trip is logged from the point of the loading of the barge to the point of unloading of the barge (i.e., excluding fleeting areas). For empty barges, trips are logged from point of unloading to the point of loading counting the fleeting areas in between (e.g. if an

empty barge moved from Dock A to Dock B and the barge stopped at three fleeting areas in between, then 4 trips are logged.)

Some towboats trips and empty barge moves are estimated from a sample to expedite processing and reduce costs. Even with sampling, however, the number of towboat trips are calculated from more than 70% of the total number of towboat moves reported, and the number of barge trips are derived from more than 85% of the total number of barge trips reported.

The number of trips also includes vessels engaged in foreign trade. These moves are furnished by the Bureau of Census who process the data collected on U.S. Customs entrance and clearance forms.

To more accurately reflect actual traffic patterns (e.g. inbound versus outbound trip counts), some adjustments are made to the trip counts in the trip and draft tables in this publication.

### Special Interest

... Passenger totals are not included in this publication but are available on request.

# Terminology

## Types of Traffic

### *Foreign*

#### **Imports**

**Overseas:** Inbound merchandise for direct consumption and entries into custom bonded storage and manufacturing warehouses originating in foreign countries other than Canada.

**Canadian:** Inbound merchandise for direct consumption and entries into custom bonded storage and manufacturing warehouses originating in Canada.

#### **Exports**

**Overseas:** Outbound domestic merchandise and re-export of foreign merchandise from a U.S. foreign trade zone destined for foreign countries other than Canada.

**Canadian:** Outbound domestic merchandise and re-export of foreign merchandise from a U.S. foreign trade zone destined for Canada.

**Intransit Merchandise:** Which is inbound merchandise coming into the United States from a foreign country and shipped to a foreign country without having been entered as an import. Intransit merchandise is treated as an **Import** when unloaded from a vessel and as an **Export** when loaded onto a vessel.

### *Domestic*

**Coastwise:** Domestic traffic receiving a carriage over the ocean, or the Gulf of Mexico, (e.g. New Orleans to Baltimore, New York to Puerto Rico, San Francisco to Hawaii, Alaska to Hawaii). Traffic between Great Lakes ports and seacoast ports, when having a carriage over the ocean, is also termed **Coastwise**.

**Lakewise:** Waterborne traffic between the United States ports on the Great Lakes System. The Great Lakes System is treated as a separate waterway system rather than as a part of the inland waterway system. In comparing historical data for the Great Lakes System, one should note that prior to calendar year 1990, marine products, sand and gravel being moved from the Great Lakes to Great Lake destinations were classified as local traffic. From 1990 on, these activities are classified as lakewise traffic.

**Internal:** Vessel movements (origin and destination) which take place solely on inland waterways. An inland waterway is one geographically located within the boundaries of the contiguous 48 states or within the boundaries of the State of Alaska.

The term "internal traffic" is also applied to these vessel movements: those which involve carriage on both inland waterways and the Great Lakes; those occurring between offshore areas and inland waterways (e.g., oil rig supplies and fish); and those taking place within Delaware Bay, Chesapeake Bay, Puget Sound, and the San Francisco Bay, which are considered internal bodies of water rather than arms of the ocean.

**Intraport:** Movement of freight within the confines of a port whether the port has one or several arms or channels included in the port definition. This traffic type will not include car-ferries and general ferries moving within a port.

**Through:** Movements transiting a waterway, or stretch thereof, as defined in the project description of individual tables, and having origins and destinations outside of the defined area.

**Intra-waterway:** Movements within the limits of a river, waterway or canal. This traffic will not include car-ferries and general ferries moving within a waterway or Corps project.

**Intra-territory:** Traffic between ports in Puerto Rico and the Virgin Islands, U.S.A. which are considered a single unit.

## Traffic Direction

### **Waterways**

**Upbound:** Traffic that moves in an upstream direction. For waterways without a characteristic monodirectional flow (e.g. the Gulf Intracoastal Waterway), "upbound" means in a northerly or easterly direction.

**Downbound:** Traffic that moves in a downstream direction. For waterways without a characteristic monodirectional flow, "downbound" means in a southerly or westwardly direction.

**Inbound:** Traffic moving from one waterway into another where the destination is on the subject waterway.

**Outbound:** Traffic moving from one waterway into another where the origin is on the subject waterway.

### **Ports**

**Receipts:** Traffic moving from one location to another where the destination is within the limits of the subject port.

**Shipments:** Traffic moving from one location to another where the origin is within the limits of the subject port.

## Commodity Classification List

<u>Major Grouping</u>	<u>Minor Grouping</u>	<u>Pub Group</u>	<u>Pub Name</u>	<u>Major Grouping</u>	<u>Minor Grouping</u>	<u>Pub Group</u>	<u>Pub Name</u>
00 Units				3283	Coloring Mat. NEC		
	0200 Vehicles			3284	Medicines		
	0300 Passengers			3285	Perfumes & Cleansers		
10 Coal				3286	Plastics		
	1100 Coal			3291	Pesticides		
	1200 Coal Coke			3292	Starches,Gluten,Glue		
20 Petroleum & Petroleum Products				3293	Explosives		
21 Crude Petroleum				3297	Chemical Additives		
	2100 Crude Petroleum			3298	Wood & Resin Chem.		
22-29 Petroleum Products				3299	Chem. Products NEC		
	2211 Gasoline			40	Crude Materials, Inedible Except Fuels		
	2221 Kerosene			41	Forest Products, Wood and Chips		
	2330 Distillate Fuel Oil			4110	Rubber & Gums		
	2340 Residual Fuel Oil			4150	Fuel Wood		
	2350 Lube Oil & Greases			4161	Wood Chips		
	2410 Petro. Jelly & Waxes			4170	Wood in the Rough		
	2429 Naphtha & Solvents			4189	Lumber		
	2430 Asphalt, Tar & Pitch			4190	Forest Products NEC		
	2540 Petroleum Coke			42	Pulp and Waste Paper		
	2640 Liquid Natural Gas			4225	Pulp & Waste Paper		
	2990 Petro. Products NEC			43	Soil, Sand, Gravel, Rock and Stone		
30 Chemicals and Related Products				4310	Building Stone		
31 Fertilizers				4322	Limestone		
	3110 Nitrogenous Fert.			4323	Gypsum		
	3120 Phosphatic Fert.			4327	Phosphate Rock		
	3130 Potassic Fert.			4331	Sand & Gravel		
	3190 Fert. & Mixes NEC			4333	Dredged Material		
32 Other Chemicals and Related and Related Products				4335	Waterway Improv. Mat		
	3211 Acyclic Hydrocarbons			4338	Soil & Fill Dirt		
	3212 Benzene & Toluene			44	Iron Ore and Scrap		
	3219 Other Hydrocarbons			4410	Iron Ore		
	3220 Alcohols			4420	Iron & Steel Scrap		
	3230 Carboxylic Acids			45	Marine Shells		
	3240 Nitrogen Func. Comp.			4515	Marine Shells		
	3250 Organo-Inorgan Comp			46	Non-Ferrous Ores and Scrap		
	3260 Organic Comp. NEC			4630	Copper Ore		
	3271 Sulphur (Liquid)			4650	Aluminum Ore		
	3272 Sulphuric Acid			4670	Manganese Ore		
	3273 Ammonia			4680	Non-Ferrous Scrap		
	3274 Sodium Hydroxide			4690	Non-Ferrous Ores NEC		
	3275 Inorg. Elemt.,Oxides, & Halogen Salts			47	Sulphur, Clay and Salt		
	3276 Metallic Salts			4741	Sulphur, (Dry)		
	3279 Inorganic Chem. NEC			4782	Clay & Refrac. Mat.		
	3281 Radioactive Material			4783	Salt		
	3282 Pigments & Paints			48	Slag		
				4860	Slag		
				49	Other Non-Metal. Min.		
				4900	Non-Metal. Min. NEC		

## Commodity Classification List (continued)

<u>Major Grouping</u>	<u>Minor Grouping</u>	<u>Pub Group</u>	<u>Pub Name</u>	<u>Major Grouping</u>	<u>Minor Grouping</u>	<u>Pub Group</u>	<u>Pub Name</u>
50 Primary Manufactured Goods				6811	Meat, Fresh, Frozen		
51 Paper Products				6817	Meat, Prepared		
5110 Newsprint				6822	Dairy Products		
5120 Paper & Paperboard				6835	Fish, Prepared		
5190 Paper Products NEC				6838	Tallow, Animal Oils		
52 Lime, Cement and Glass				6839	Animals & Prod. NEC		
5210 Lime				6856	Bananas & Plantains		
5220 Cement & Concrete				6857	Fruit & Nuts NEC		
5240 Glass & Glass Prod.				6858	Fruit Juices		
5290 Misc. Mineral Prod.				6861	Sugar		
53 Primary Iron and Steel Products				6865	Molasses		
5312 Pig Iron				6871	Coffee		
5315 Ferro Alloys				6872	Cocoa Beans		
5320 I&S Primary Forms				6885	Alcoholic Beverages		
5330 I&S Plates & Sheets				6887	Groceries		
5360 I&S Bars & Shapes				6888	Water & Ice		
5370 I&S Pipe & Tube				6889	Food Products NEC		
5390 Primary I&S NEC				6891	Tobacco & Products		
54 Primary Non-Ferrous Metal Products				6893	Cotton		
5421 Copper				6894	Natural Fibers NEC		
5422 Aluminum				6899	Farm Products NEC		
5429 Smelted Prod. NEC							
5480 Fab. Metal Products							
55 Primary Wood Products; Veneer							
5540 Primary Wood Prod.							
60 Food and Farm Products							
61 Fish							
6134 Fish (Not Shellfish)				7110	Machinery (Not Elec)		
6136 Shellfish				7120	Electrical Machinery		
62-64 Grain				7210	Vehicles & Parts		
6241 Wheat				7220	Aircraft & Parts		
6344 Corn				7230	Ships & Boats		
6442 Rice				7300	Ordnance & Access.		
6443 Barley & Rye				7400	Manufac. Wood Prod.		
6445 Oats				7500	Textile Products		
6447 Sorghum Grains				7600	Rubber & Plastic Pr.		
65 Oilseeds				7800	Empty Containers		
6521 Peanuts				7900	Manufac. Prod. NEC		
6522 Soybeans							
6534 Flaxseed							
6590 Oilseeds NEC							
66 Vegetable Products				80	Waste and Scrap NEC		
6653 Vegetable Oils				8900	Waste and Scrap NEC		
6654 Vegetables & Prod.							
67 Processed Grain and Animal Fed							
6746 Wheat Flour				90	Unknown or Not Elsewhere Classified		
6747 Grain Mill Products				99	Unknown or Not Elsewhere Clsfld		
6781 Hay & Fodder				9900	Unknown or NEC		
6782 Animal Feed, Prep.							
68 Other Agricultural Products							

TABLE 1 - TON-MILEAGE OF UNITED STATES FREIGHT CARRIED ON THE GREAT LAKES BY AREA, CALENDAR YEAR 1990  
(thousand ton-miles)

Area	Area Totals	Foreign			Domestic			In/Out	In/Out
		Overseas	In/Out	Canadian	Coastwise	Lakewise	Internal		
		In/Out	Through		In/Out	Through	In/Out	In/Out	In/Out
DETROIT RIVER, MI	1,857,633	17,029	117,810	49,949	420,996	—	—	181,614	1,070,050
*LAKE ERIE	8,328,480	283,542	1,213,433	2,616,987	2,067,494	—	—	2,142,548	4,340
LAKE HURON	22,632,011	6,109	1,035,261	641,198	2,449,082	—	—	5,271,823	13,227,493
**LAKE MICHIGAN	15,793,341	843,927	—	1,688,890	42	1,176	—	13,164,121	—
**LAKE ONTARIO	7,031,090	2,108	2,405,974	204,631	4,406,799	—	—	—	26,250
LAKE SUPERIOR	25,245,258	657,361	—	1,610,188	285,584	—	—	2,823	8,626
ST. CLAIR RIVER, MI	2,681,732	322	147,872	10,553	562,091	—	—	22,691,585	68
***ST. LAWRENCE RIVER	1,902,780	3,438	704,223	36,431	1,154,696	—	—	—	61
ST. MARYS RIVER, MI	4,512,920	21	106,948	1,783	359,628	—	—	174,523	1,786,227
WELLAND CANAL, CANADA	699,164	—	172,252	—	525,696	—	—	—	—
NET UNITED STATES TRAFFIC ON THE GREAT LAKES	90,224,628	7,717,632	—	18,682,937	1,176	—	—	63,775,513	27,890
									69,480

\* Including Upper Niagara River

\*\* Including the Port of Chicago (Chicago Harbor, North Branch, South Branch, Sanitary Ship Canal, Calumet-Sag Channel, Lake Calumet and Calumet Harbor and River)

\*\*\* Including Lower Niagara River

\*\*\*\* Between international boundary line and Lake Ontario

TABLE 2 - FREIGHT TONS OF UNITED STATES TRAFFIC CARRIED ON THE GREAT LAKES BY AREA, CALENDAR YEAR 1990  
(thousand tons)

Area	Area Totals	Foreign		Canadian		Coastwise		Lakewise		Domestic		Intraport In/Out
		Overseas	In/Out Through	In/Out	Through	In/Out	Through	In/Out	Through	In/Out	Internal Through	
DETROIT RIVER, MI	69,635	808	3,800	3,027	13,581	—	—	13,807	34,518	94	1	— 5
*LAKE ERIE	83,245	1,733	4,627	24,511	8,118	—	—	44,235	17	1	0	—
LAKE HURON	108,571	21	3,770	3,248	10,255	—	—	24,552	66,721	—	4	—
**LAKE MICHIGAN	54,880	2,099	—	4,356	0	4	—	42,603	—	2,926	—	2,888
***LAKE ONTARIO	26,303	4	6,356	1,075	18,755	—	—	15	30	68	0	—
LAKE SUPERIOR	74,429	1,671	—	6,379	1,582	—	—	64,256	—	—	—	540
ST. CLAIR RIVER, MI	75,438	9	3,792	1,224	14,413	—	—	10,197	45,801	—	—	4
***ST. LAWRENCE RIVER	16,940	15	6,344	164	10,386	—	—	30	—	—	—	—
ST. MARYS RIVER, MI	71,865	0	1,671	112	6,315	—	—	765	63,001	—	—	—
WELLAND CANAL, CANADA	25,560	—	6,360	—	19,155	—	—	—	45	—	0	—
NET UNITED STATES TRAFFIC ON THE GREAT LAKES	167,140	6,360	—	44,096	—	4	—	110,159	—	3,088	—	3,432

- \* Including Upper Niagara River
- \*\* Including the Port of Chicago (Chicago Harbor, North Branch, South Branch, Sanitary Ship Canal, Calumet-Sag Channel, Lake Calumet and Calumet Harbor and River)
- \*\*\* Including Lower Niagara River
- \*\*\*\* Between international boundary line and Lake Ontario

TABLE 3 - NET SUMMARY OF FOREIGN AND DOMESTIC FREIGHT CARRIED ON THE GREAT LAKES, BY TYPE OF TRAFFIC AND COMMODITY

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	148,147	1986	137,918
1982	127,389	1987	148,108
1983	138,218	1988	168,816
1984	162,799	1989	168,902
1985	148,147	1990	167,140

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Foreign				Domestic			
		Imports		Exports		Coastwise	Lakewise	Internal	Local
		Canadian	Overseas	Canadian	Overseas				
<b>Total, all commodities</b>	<b>167,140</b>	<b>14,535</b>	<b>3,023</b>	<b>29,561</b>	<b>3,337</b>	<b>4</b>	<b>110,159</b>	<b>3,088</b>	<b>3,432</b>
Total coal	39,360	397	-----	18,863	193	-----	19,570	263	74
1100 coal lignite	38,653	290	-----	18,511	193	-----	19,560	75	24
1200 coal coke	707	106	-----	352	0	-----	10	189	50
<b>Total petroleum and petroleum products</b>	<b>6,420</b>	<b>1,072</b>	<b>0</b>	<b>824</b>	<b>361</b>	<b>-----</b>	<b>2,427</b>	<b>830</b>	<b>907</b>
<b>Subtotal crude petroleum</b>	<b>7</b>	<b>7</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
2100 crude petroleum	7	7	-----	-----	-----	-----	-----	-----	-----
<b>Subtotal petroleum products</b>	<b>6,413</b>	<b>1,066</b>	<b>0</b>	<b>824</b>	<b>361</b>	<b>-----</b>	<b>2,427</b>	<b>830</b>	<b>907</b>
2211 gasoline	1,050	109	-----	48	-----	-----	694	67	133
2221 kerosene	15	-----	-----	15	-----	-----	-----	-----	-----
2330 distillate fuel oil	1,144	173	-----	64	3	-----	450	226	228
2340 residual fuel oil	1,718	623	-----	326	55	-----	257	242	213
2350 lube oil & greases	64	29	0	4	0	-----	-----	30	-----
2429 naphtha & solvents	86	15	-----	10	-----	-----	-----	19	42
2430 asphalt, tar & pitch	1,382	113	-----	-----	-----	-----	822	169	278
2540 petroleum coke	951	-----	-----	356	303	-----	203	76	13
2640 liquid natural gas	5	4	-----	-----	-----	-----	0	-----	-----

TABLE 3 - NET SUMMARY OF FOREIGN AND DOMESTIC FREIGHT CARRIED ON THE GREAT  
LAKES, BY TYPE OF TRAFFIC AND COMMODITY  
Freight Traffic, 1990 - continued  
(thousand tons)

Commodity	Grand Total	Foreign				Domestic			
		Imports		Exports		Coastwise	Lakewise	Internal	Local
		Canadian	Overseas	Canadian	Overseas				
<b>Total chemicals and related products</b>	<b>2,661</b>	<b>1,563</b>	<b>69</b>	<b>197</b>	<b>43</b>	-----	181	393	214
Subtotal fertilizers	1,399	992	24	171	33	-----	2	178	-----
3110 nitrogenous fert.	309	98	24	36	-----	-----	0	151	-----
3120 phosphatic fert.	19	-----	-----	8	-----	-----	2	9	-----
3130 potassic fert.	921	894	-----	27	-----	-----	-----	-----	-----
3190 fert. & mixes nec	150	0	-----	99	33	-----	-----	18	-----
Subtotal other chemicals and related products	1,262	571	45	27	10	-----	179	215	214
3211 acyclic hydrocarbons	15	15	-----	0	-----	-----	-----	-----	-----
3212 benzene & toluene	50	7	-----	-----	-----	-----	-----	43	-----
3219 other hydrocarbons	189	115	4	7	4	-----	-----	15	44
3220 alcohols	158	35	0	0	0	-----	-----	123	-----
3230 carboxylic acids	1	-----	0	0	0	-----	-----	-----	-----
3240 nitrogen func. comp.	17	16	0	1	0	-----	-----	-----	-----
3250 organo-inorgan. comp	0	-----	0	0	0	-----	-----	-----	-----
3260 organic comp. nec	19	15	0	-----	1	-----	-----	-----	3
3272 sulphuric acid	12	12	-----	-----	-----	-----	-----	-----	-----
3273 ammonia	19	19	-----	-----	-----	-----	-----	-----	-----
3274 sodium hydroxide	232	206	0	15	0	-----	-----	9	1
3275 inorg. elem., oxides, & halogen salts	85	53	9	0	0	-----	22	-----	-----
3276 metallic salts	405	33	25	0	0	-----	157	191	-----
3279 inorganic chem. nec	1	1	0	0	-----	-----	-----	-----	-----
3282 pigments & paints	5	1	3	1	0	-----	-----	-----	-----
3283 coloring mat. nec	0	-----	0	0	0	-----	-----	-----	-----
3284 medicines	1	-----	0	0	1	-----	-----	-----	-----
3285 perfumes & cleansers	1	0	0	0	1	-----	-----	-----	-----
3286 plastics	24	21	1	1	2	-----	0	-----	-----
3291 pesticides	0	-----	0	0	0	-----	-----	-----	-----
3292 starches, gluten, glue	1	-----	1	0	0	-----	-----	-----	-----
3293 explosives	0	-----	0	-----	0	-----	0	-----	-----
3297 chemical additives	0	-----	0	-----	0	-----	-----	-----	-----

TABLE 3 - NET SUMMARY OF FOREIGN AND DOMESTIC FREIGHT CARRIED ON THE GREAT LAKES, BY TYPE OF TRAFFIC AND COMMODITY  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Grand Total	Foreign				Domestic			
		Imports		Exports		Coastwise	Lakewise	Internal	Local
		Canadian	Overseas	Canadian	Overseas				
3298 wood & resin chem.	0	-----	-----	0	-----	-----	0	-----	-----
3299 chem. products nec	26	25	0	0	0	-----	-----	-----	-----
<b>Total crude materials, inedible except fuels</b>	<b>103,087</b>	<b>8,577</b>	<b>275</b>	<b>7,093</b>	<b>414</b>	-----	<b>83,728</b>	<b>873</b>	<b>2,126</b>
<b>Subtotal forest products, wood and chips</b>	<b>35</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>1</b>	-----	<b>27</b>	-----	-----
4110 rubber & gums	0	-----	-----	0	-----	-----	-----	-----	-----
4150 fuel wood	1	-----	-----	-----	-----	-----	1	-----	-----
4170 wood in the rough	1	-----	-----	0	0	-----	1	-----	-----
4189 lumber	33	7	0	0	1	-----	25	-----	-----
4190 forest products nec	0	-----	0	-----	0	-----	-----	-----	-----
<b>Subtotal pulp and waste paper</b>	<b>131</b>	<b>105</b>	<b>21</b>	<b>3</b>	<b>3</b>	-----	<b>0</b>	-----	-----
4225 pulp & waste paper	131	105	21	3	3	-----	0	-----	-----
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>29,318</b>	<b>297</b>	<b>0</b>	<b>3,084</b>	<b>0</b>	-----	<b>23,818</b>	-----	<b>2,119</b>
4310 building stone	6	6	0	-----	-----	-----	0	-----	-----
4322 limestone	24,457	-----	-----	2,656	0	-----	21,800	-----	-----
4323 gypsum	1,047	-----	-----	28	-----	-----	1,019	-----	-----
4331 sand & gravel	3,808	291	0	399	0	-----	999	-----	2,119
4335 waterway improv. mat	0	-----	-----	-----	-----	-----	0	-----	-----
4338 soil & fill dirt	0	-----	-----	-----	-----	-----	0	-----	-----
<b>Subtotal iron ore and scrap</b>	<b>67,511</b>	<b>5,012</b>	<b>30</b>	<b>3,419</b>	<b>327</b>	-----	<b>58,128</b>	<b>587</b>	<b>7</b>
4410 iron ore	66,806	4,934	29	3,408	-----	-----	58,102	330	4
4420 iron & steel scrap	705	78	1	12	327	-----	27	258	3
<b>Subtotal marine shells</b>	<b>9</b>	-----	-----	-----	-----	-----	-----	<b>9</b>	-----
4515 marine shells	9	-----	-----	-----	-----	-----	-----	9	-----
<b>Subtotal non-ferrous ores and scrap</b>	<b>467</b>	<b>0</b>	<b>204</b>	<b>162</b>	<b>11</b>	-----	-----	<b>88</b>	-----
4630 copper ore	0	-----	-----	0	-----	-----	-----	-----	-----
4650 aluminum ore	100	-----	17	6	0	-----	-----	77	-----
4670 manganese ore	63	-----	36	16	-----	-----	-----	12	-----
4680 non-ferrous scrap	37	0	32	0	5	-----	-----	-----	-----
4690 non-ferrous ores nec	267	-----	120	140	7	-----	-----	-----	-----

TABLE 3 - NET SUMMARY OF FOREIGN AND DOMESTIC FREIGHT CARRIED ON THE GREAT  
LAKES, BY TYPE OF TRAFFIC AND COMMODITY  
Freight Traffic, 1990 - continued  
(thousand tons)

Commodity	Grand Total	Foreign				Domestic			
		Imports		Exports		Coastwise	Lakewise	Internal	Local
		Canadian	Overseas	Canadian	Overseas				
<b>Subtotal sulphur, clay and salt</b>	<b>1,414</b>	<b>1,089</b>	<b>20</b>	<b>55</b>	<b>68</b>	-----	<b>176</b>	<b>5</b>	-----
4782 clay & refrac. mat.	1,414	1,089	20	55	68	-----	176	5	-----
<b>Subtotal slag</b>	<b>1,246</b>	<b>399</b>	-----	<b>3</b>	<b>3</b>	-----	<b>667</b>	<b>174</b>	-----
4860 slag	1,246	399	-----	3	3	-----	667	174	-----
<b>Subtotal other non-metal. mln.</b>	<b>2,956</b>	<b>1,668</b>	<b>0</b>	<b>367</b>	<b>0</b>	-----	<b>912</b>	<b>9</b>	-----
4900 non-metal. min. nec	2,956	1,668	0	367	0	-----	912	9	-----
<b>Total primary manufactured goods</b>	<b>8,308</b>	<b>1,448</b>	<b>2,641</b>	<b>74</b>	<b>220</b>	-----	<b>3,271</b>	<b>621</b>	<b>33</b>
<b>Subtotal paper products</b>	<b>258</b>	<b>131</b>	<b>1</b>	<b>1</b>	<b>1</b>	-----	<b>123</b>	-----	-----
5110 newsprint	124	124	-----	0	-----	-----	-----	-----	-----
5120 paper & paperboard	78	7	1	1	1	-----	68	-----	-----
5190 paper products nec	56	-----	0	0	0	-----	55	-----	-----
<b>Subtotal lime, cement and glass</b>	<b>4,436</b>	<b>1,216</b>	<b>5</b>	<b>63</b>	<b>0</b>	-----	<b>3,084</b>	<b>68</b>	-----
5210 lime	0	-----	-----	-----	-----	-----	0	-----	-----
5220 cement & concrete	4,428	1,216	-----	61	-----	-----	3,083	68	-----
5240 glass & glass prod.	1	0	0	0	0	-----	0	-----	-----
5290 misc. mineral prod.	7	0	5	2	0	-----	1	-----	-----
<b>Subtotal primary iron and steel products</b>	<b>3,386</b>	<b>91</b>	<b>2,563</b>	<b>9</b>	<b>218</b>	-----	<b>64</b>	<b>411</b>	<b>31</b>
5312 pig iron	154	66	85	-----	-----	-----	-----	3	-----
5315 ferro alloys	136	17	70	0	-----	-----	5	14	29
5320 i&s primary forms	251	0	185	0	7	-----	1	57	-----
5330 i&s plates & sheets	2,095	0	1,802	5	210	-----	-----	77	-----
5360 i&s bars & shapes	385	1	371	0	-----	-----	-----	13	1
5370 i&s pipe & tube	44	2	41	0	0	-----	0	-----	0
5390 primary i&s nec	321	5	8	4	0	-----	57	246	1
<b>Subtotal primary non-ferrous metal products</b>	<b>224</b>	<b>7</b>	<b>72</b>	<b>1</b>	<b>0</b>	-----	<b>0</b>	<b>143</b>	<b>1</b>
5421 copper	0	-----	0	0	0	-----	-----	-----	-----
5422 aluminum	5	4	1	0	0	-----	-----	-----	-----
5429 smelted prod. nec	72	0	66	0	0	-----	5	-----	-----

TABLE 3 - NET SUMMARY OF FOREIGN AND DOMESTIC FREIGHT CARRIED ON THE GREAT LAKES, BY TYPE OF TRAFFIC AND COMMODITY  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Grand Total	Foreign				Domestic			
		Imports		Exports		Coastwise	Lakewise	Internal	Local
		Canadian	Overseas	Canadian	Overseas				
5480 fab. metal products	147	2	4	1	0	-----	0	138	1
<b>Subtotal primary wood products</b>	<b>4</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>1</b>	-----	-----	-----	-----
5540 primary wood prod.	4	4	0	0	1	-----	-----	-----	-----
<b>Total food and farm products</b>	<b>6,180</b>	<b>568</b>	<b>4</b>	<b>2,501</b>	<b>2,086</b>	-----	<b>919</b>	<b>101</b>	-----
<b>Subtotal fish</b>	<b>6</b>	-----	-----	0	6	-----	0	-----	-----
6134 fish (not shellfish)	6	-----	-----	0	6	-----	0	-----	-----
6136 shellfish	0	-----	-----	-----	0	-----	-----	-----	-----
<b>Subtotal grain</b>	<b>5,663</b>	<b>551</b>	<b>0</b>	<b>2,381</b>	<b>1,739</b>	-----	<b>909</b>	<b>83</b>	-----
6241 wheat	2,914	272	-----	724	985	-----	909	24	-----
6344 corn	1,256	-----	-----	707	489	-----	-----	59	-----
6442 rice	0	-----	0	0	-----	-----	-----	-----	-----
6443 barley & rye	1,247	32	-----	949	265	-----	-----	-----	-----
6445 oats	247	247	-----	-----	-----	-----	-----	-----	-----
<b>Subtotal oilseeds</b>	<b>362</b>	<b>13</b>	<b>0</b>	<b>84</b>	<b>251</b>	-----	-----	<b>13</b>	-----
6521 peanuts	0	-----	-----	0	-----	-----	-----	-----	-----
6522 soybeans	348	-----	0	84	251	-----	-----	13	-----
6534 flaxseed	10	10	-----	-----	-----	-----	-----	-----	-----
6590 oilseeds nec	4	4	-----	0	0	-----	-----	-----	-----
<b>Subtotal vegetable products</b>	<b>33</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>27</b>	-----	<b>4</b>	-----	-----
6653 vegetable oils	0	-----	0	-----	-----	-----	-----	-----	-----
6654 vegetables & prod.	33	0	0	1	27	-----	4	-----	-----
<b>Subtotal processed grain and animal feed</b>	<b>47</b>	<b>4</b>	<b>0</b>	<b>7</b>	<b>28</b>	-----	<b>5</b>	<b>4</b>	-----
6746 wheat flour	0	-----	-----	-----	0	-----	-----	-----	-----
6747 grain mill products	1	0	0	0	0	-----	-----	-----	-----
6781 hay & fodder	2	2	-----	-----	-----	-----	-----	-----	-----
6782 animal feed, prep.	45	1	0	7	27	-----	5	4	-----
<b>Subtotal other agricultural products</b>	<b>68</b>	<b>0</b>	<b>3</b>	<b>29</b>	<b>35</b>	-----	<b>1</b>	-----	-----
6811 meat, fresh, frozen	1	-----	0	0	0	-----	0	-----	-----
6817 meat, prepared	0	-----	0	0	-----	-----	-----	-----	-----
6822 dairy products	0	-----	0	0	-----	-----	0	-----	-----
6835 fish, prepared	0	-----	0	-----	0	-----	-----	-----	-----
6838 tallow, animal oils	8	-----	-----	-----	8	-----	-----	-----	-----
6839 animals & prod. nec	0	0	0	0	0	-----	-----	-----	-----
6856 bananas & plantains	0	-----	0	-----	-----	-----	-----	-----	-----

TABLE 3 - NET SUMMARY OF FOREIGN AND DOMESTIC FREIGHT CARRIED ON THE GREAT LAKES, BY TYPE OF TRAFFIC AND COMMODITY  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Grand Total	Foreign				Domestic			
		Imports		Exports		Coastwise	Lakewise	Internal	Local
		Canadian	Overseas	Canadian	Overseas				
6857 fruit & nuts nec	0	-----	-----	0	0	-----	0	-----	-----
6858 fruit juices	1	-----	0	1	0	-----	-----	-----	-----
6861 sugar	0	-----	-----	0	-----	-----	-----	-----	-----
6865 molasses	1	-----	-----	1	-----	-----	0	-----	-----
6871 coffee	0	-----	0	0	0	-----	-----	-----	-----
6872 cocoa beans	0	-----	0	0	-----	-----	-----	-----	-----
6885 alcoholic beverages	28	0	2	25	-----	-----	0	-----	-----
6887 groceries	0	-----	-----	-----	-----	-----	0	-----	-----
6888 water & ice	0	-----	0	-----	-----	-----	0	-----	-----
6889 food products nec	2	-----	1	1	0	-----	0	-----	-----
6891 tobacco & products	0	-----	-----	-----	0	-----	-----	-----	-----
6893 cotton	0	-----	-----	0	-----	-----	-----	-----	-----
6899 farm products nec	25	0	0	-----	25	-----	-----	-----	-----
<b>Total all manufactured equipment, machinery and products</b>	<b>1,014</b>	<b>884</b>	<b>32</b>	<b>7</b>	<b>21</b>	<b>4</b>	<b>58</b>	<b>7</b>	<b>-----</b>
7110 machinery (not elec)	159	102	19	4	18	4	6	7	-----
7120 electrical machinery	5	2	2	0	1	-----	0	-----	-----
7210 vehicles & parts	765	758	5	1	0	-----	0	-----	-----
7220 aircraft & parts	0	0	0	0	0	-----	-----	-----	-----
7230 ships & boats	0	0	0	0	0	-----	0	-----	-----
7300 ordnance & access.	0	-----	-----	-----	0	-----	-----	-----	-----
7400 manufac. wood prod.	3	-----	0	0	-----	-----	3	-----	-----
7500 textile products	2	-----	2	0	0	-----	0	-----	-----
7600 rubber & plastic pr.	37	21	2	1	0	-----	13	-----	-----
7900 manufac. prod. nec	41	1	2	1	0	-----	36	-----	-----
<b>Total waste and scrap nec</b>	<b>79</b>	-----	-----	-----	-----	-----	0	-----	<b>78</b>
8900 waste and scrap nec	79	-----	-----	-----	-----	-----	0	-----	78
<b>Total unknown or not elsewhere classified</b>	<b>32</b>	<b>25</b>	<b>1</b>	<b>1</b>	<b>0</b>	-----	4	-----	-----
9900 unknown or nec	32	25	1	1	0	-----	4	-----	-----

## Section 1 Freight Traffic



## TWO HARBORS (AGATE BAY), MN

Section Included: Entire harbor. Controlling Depth: 28 feet except for a 26 foot area along the east project line.  
 Project Depth: 28 feet in inner basin and 30 feet near entrance.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	11,332	1986	6,609
1982	5,060	1987	7,414
1983	9,055	1988	12,116
1984	7,677	1989	10,536
1985	9,631	1990	12,313

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Lakewise	Shipments
		Receipts	
<b>Total, all commodities</b>	<b>12,313</b>	<b>5</b>	<b>12,308</b>
<b>Total petroleum and petroleum products</b>	<b>5</b>	<b>5</b>	<b>-----</b>
<b>Subtotal petroleum products</b>	<b>5</b>	<b>5</b>	<b>-----</b>
2330 distillate fuel oil	1	1	-----
2340 residual fuel oil	4	4	-----
<b>Total crude materials, Inedible except fuels</b>	<b>12,308</b>	<b>-----</b>	<b>12,308</b>
<b>Subtotal iron ore and scrap</b>	<b>12,308</b>	<b>-----</b>	<b>12,308</b>
4410 iron ore	12,308	-----	12,308

## DULUTH-SUPERIOR HARBOR, MN AND WI

Section Included: Superior Bay and its tributaries, St. Louis Bay and St. Louis River, and Allouez Bay. Controlling Depth: 32 feet in lake approaches, diminishing to a minimum of 20 feet in certain inner channels; there are numerous 1-2 foot shoals scattered in portions of the Duluth and Superior Harbor Basins. Project Depth: 32 feet in lake approaches; 27 feet in Duluth and Superior Harbor Basins, superior front channel, and in ore-channel routes through north and south channels to D. M. & I. R. R.Y. ore docks; 27 feet in Howards Bay and Allouez Bay; 23 feet in remaining portion of south, upper, and Minnesota channels to Hallet Dock No. 6; and 20 feet from thence to northerly end of Clough Island. Navigation Season: April 3 to January 11.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	39,426	1986	29,155
1982	27,436	1987	36,463
1983	30,094	1988	40,002
1984	37,256	1989	40,803
1985	28,817	1990	40,766

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			Internal
		Imports	Exports	Imports	Exports	Total	Lakewise		
						Receipts	Shipments		
<b>Total, all commodities</b>	<b>40,766</b>	<b>47</b>	<b>1,622</b>	<b>747</b>	<b>3,319</b>	<b>35,032</b>	<b>2,687</b>	<b>31,807</b>	<b>538</b>
Total coal	12,386	-----	-----	-----	380	12,007	132	11,875	-----
1100 coal lignite	12,386	-----	-----	-----	380	12,007	132	11,875	-----
<b>Total petroleum and petroleum products</b>	<b>266</b>	<b>-----</b>	<b>109</b>	<b>32</b>	<b>-----</b>	<b>125</b>	<b>30</b>	<b>25</b>	<b>70</b>
<b>Subtotal petroleum products</b>	<b>266</b>	<b>-----</b>	<b>109</b>	<b>32</b>	<b>-----</b>	<b>125</b>	<b>30</b>	<b>25</b>	<b>70</b>
2211 gasoline	46	-----	-----	8	-----	39	21	18	-----
2330 distillate fuel oil	24	-----	3	-----	-----	21	9	2	9
2340 residual fuel oil	89	-----	-----	24	-----	65	-----	4	61
2350 lube oil & greases	0	-----	0	-----	-----	-----	-----	-----	-----
2540 petroleum coke	106	-----	106	-----	-----	-----	-----	-----	-----
<b>Total chemicals and related products</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>16</b>	<b>16</b>	<b>-----</b>	<b>-----</b>
<b>Subtotal other chemicals and related products</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>16</b>	<b>16</b>	<b>-----</b>	<b>-----</b>
3230 carboxylic acids	0	0	-----	-----	-----	-----	-----	-----	-----
3260 organic comp. nec	0	-----	0	-----	-----	-----	-----	-----	-----
3274 sodium hydroxide	0	-----	0	-----	-----	-----	-----	-----	-----

**DULUTH-SUPERIOR HARBOR, MN AND WI**  
**Freight Traffic, 1990 - continued**  
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			Internal Inraport
		Imports	Exports	Imports	Exports	Total	Lakewise	Receipts	
3276 metallic salts	16	-----	-----	-----	-----	16	16	-----	-----
3284 medicines	0	0	-----	-----	-----	-----	-----	-----	-----
3286 plastics	0	-----	0	-----	-----	-----	-----	-----	-----
<b>Total crude materials, inedible except fuels</b>	<b>23,208</b>	<b>-----</b>	<b>3</b>	<b>256</b>	<b>1,157</b>	<b>21,791</b>	<b>2,324</b>	<b>18,999</b>	<b>468</b>
<b>Subtotal forest products, wood and chips</b>	<b>0</b>	<b>-----</b>	<b>0</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
4189 lumber	0	-----	-----	0	-----	-----	-----	-----	-----
<b>Subtotal pulp and waste paper</b>	<b>83</b>	<b>-----</b>	<b>83</b>	<b>83</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
4225 pulp & waste paper	83	-----	83	83	-----	-----	-----	-----	-----
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>2,974</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>2,974</b>	<b>2,290</b>	<b>217</b>	<b>468</b>
4322 limestone	2,494	-----	-----	-----	-----	2,494	2,277	217	-----
4331 sand & gravel	481	-----	-----	-----	-----	481	13	-----	468
<b>Subtotal iron ore and scrap</b>	<b>19,878</b>	<b>-----</b>	<b>-----</b>	<b>1,114</b>	<b>18,764</b>	<b>9</b>	<b>18,755</b>	<b>-----</b>	<b>-----</b>
4410 iron ore	19,878	-----	-----	1,114	18,764	9	18,755	-----	-----
<b>Subtotal sulphur, clay and salt</b>	<b>46</b>	<b>-----</b>	<b>3</b>	<b>43</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
4782 clay & refrac. mat.	46	-----	3	43	-----	-----	-----	-----	-----
<b>Subtotal slag</b>	<b>28</b>	<b>-----</b>	<b>-----</b>	<b>1</b>	<b>-----</b>	<b>27</b>	<b>-----</b>	<b>27</b>	<b>-----</b>
4860 slag	28	-----	-----	1	-----	27	-----	27	-----
<b>Subtotal other non-metal. min.</b>	<b>198</b>	<b>-----</b>	<b>-----</b>	<b>172</b>	<b>-----</b>	<b>26</b>	<b>26</b>	<b>-----</b>	<b>-----</b>
4900 non-metal. min. nec	198	-----	-----	172	-----	26	26	-----	-----
<b>Total primary manufactured goods</b>	<b>437</b>	<b>45</b>	<b>0</b>	<b>208</b>	<b>0</b>	<b>184</b>	<b>184</b>	<b>-----</b>	<b>-----</b>
<b>Subtotal paper products</b>	<b>111</b>	<b>-----</b>	<b>-----</b>	<b>111</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
5110 newsprint	106	-----	-----	106	-----	-----	-----	-----	-----
5120 paper & paperboard	4	-----	-----	4	-----	-----	-----	-----	-----
<b>Subtotal lime, cement and glass</b>	<b>281</b>	<b>-----</b>	<b>-----</b>	<b>98</b>	<b>0</b>	<b>184</b>	<b>184</b>	<b>-----</b>	<b>-----</b>
5220 cement & concrete	281	-----	-----	98	-----	184	184	-----	-----
5240 glass & glass prod.	0	-----	-----	0	-----	-----	-----	-----	-----

**DULUTH-SUPERIOR HARBOR, MN AND WI**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) | | | | | | |

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Lakewise	Internal
						Receipts	Shipments	Intraport
<b>Subtotal primary iron and steel products</b>	<b>45</b>	<b>45</b>	-----	-----	-----	-----	-----	-----
5330 i&s plates & sheets	45	45	-----	-----	-----	-----	-----	-----
<b>Subtotal primary non-ferrous metal products</b>	<b>0</b>	-----	<b>0</b>	-----	-----	-----	-----	-----
5480 fab. metal products	0	-----	0	-----	-----	-----	-----	-----
<b>Total food and farm products</b>	<b>4,451</b>	-----	<b>1,509</b>	<b>250</b>	<b>1,782</b>	<b>909</b>	-----	<b>909</b>
<b>Subtotal grain</b>	<b>4,259</b>	-----	<b>1,334</b>	<b>234</b>	<b>1,782</b>	<b>909</b>	-----	<b>909</b>
6241 wheat	2,599	-----	951	22	717	909	-----	909
6344 corn	233	-----	117	-----	116	-----	-----	-----
6443 barley & rye	1,243	-----	265	29	949	-----	-----	-----
6445 oats	183	-----	-----	183	-----	-----	-----	-----
<b>Subtotal oilseeds</b>	<b>131</b>	-----	<b>118</b>	<b>13</b>	-----	-----	-----	-----
6522 soybeans	118	-----	118	-----	-----	-----	-----	-----
6534 flaxseed	10	-----	-----	10	-----	-----	-----	-----
6590 oilseeds nec	4	-----	-----	4	-----	-----	-----	-----
<b>Subtotal vegetable products</b>	<b>26</b>	-----	<b>26</b>	-----	-----	-----	-----	-----
6654 vegetables & prod.	26	-----	26	-----	-----	-----	-----	-----
<b>Subtotal processed grain and animal feed</b>	<b>9</b>	-----	<b>6</b>	<b>2</b>	-----	-----	-----	-----
6747 grain mill products	0	-----	-----	0	-----	-----	-----	-----
6781 hay & fodder	2	-----	-----	2	-----	-----	-----	-----
6782 animal feed, prep.	6	-----	6	-----	-----	-----	-----	-----
<b>Subtotal other agricultural products</b>	<b>26</b>	-----	<b>25</b>	<b>0</b>	-----	-----	-----	-----
6857 fruit & nuts nec	0	-----	0	-----	-----	-----	-----	-----
6858 fruit juices	0	-----	0	-----	-----	-----	-----	-----
6899 farm products nec	25	-----	25	0	-----	-----	-----	-----
<b>Total all manufactured equipment, machinery and products</b>	<b>2</b>	<b>2</b>	<b>0</b>	-----	-----	-----	-----	-----
7110 machinery (not elec)	0	0	-----	-----	-----	-----	-----	-----
7210 vehicles & parts	0	0	0	-----	-----	-----	-----	-----
7230 ships & boats	0	-----	0	-----	-----	-----	-----	-----

**DULUTH-SUPERIOR HARBOR, MN AND WI**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) |

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Lakewise	Internal
						Receipts	Shipments	Intraport
7500 textile products	1	1	-----	-----	-----	-----	-----	-----
7900 manufac. prod. nec	0	-----	0	-----	-----	-----	-----	-----
<b>Total unknown or not elsewhere classified</b>	<b>0</b>	<b>-----</b>	<b>0</b>	<b>-----</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
9900 unknown or nec	0	-----	0	-----	0	-----	-----	-----

## TACONITE HARBOR, MN

## NON-CORPS PROJECT

Comparative Statement of Traffic  
 (thousand tons)

Year	Total	Year	Total
1981	9,246	1986	6,102
1982	4,217	1987	7,555
1983	3,925	1988	8,267
1984	4,175	1989	8,991
1985	5,446	1990	9,651

Freight Traffic, 1990  
 (thousand tons)

Commodity	Grand Total	Canadian		Domestic		
		Imports	Exports	Total	Lakewise	Internal
				Receipts	Shipments	Intraport
<b>Total, all commodities</b>	<b>9,651</b>	<b>9</b>	<b>33</b>	<b>9,608</b>	<b>12</b>	<b>9,596</b>
<b>Total coal</b>	<b>12</b>	<b>-----</b>	<b>-----</b>	<b>12</b>	<b>12</b>	<b>-----</b>
1100 coal lignite	12	-----	-----	12	12	-----
<b>Total petroleum and petroleum products</b>	<b>17</b>	<b>9</b>	<b>8</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
<b>Subtotal petroleum products</b>	<b>17</b>	<b>9</b>	<b>8</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
2340 residual fuel oil	17	9	8	-----	-----	-----
<b>Total crude materials, inedible except fuels</b>	<b>9,621</b>	<b>-----</b>	<b>25</b>	<b>9,596</b>	<b>-----</b>	<b>9,596</b>
<b>Subtotal iron ore and scrap</b>	<b>9,621</b>	<b>-----</b>	<b>25</b>	<b>9,596</b>	<b>-----</b>	<b>9,596</b>
4410 iron ore	9,621	-----	25	9,596	-----	9,596

## Other Harbors and Waterways

Harbor or Waterway	Commodity	Tons Thousand
Project		
ASHLAND HARBOR, WI	1100 coal lignite 4322 limestone	78 36
	<b>Total Tons(x1000)</b>	<b>115</b>
BAYFIELD HARBOR, WI	2211 gasoline 2330 distillate fuel oil 2640 liquid natural gas 4150 fuel wood 4170 wood in the rough 4331 sand & gravel 7230 ships & boats 7900 manufac. prod. nec	0 0 0 1 0 14 0 15
	<b>Total Tons(x1000)</b>	<b>30</b>
BEAVER BAY HARBOR, MN	No Commerce Reported	
CHIPPEWA HARBOR (ISLE ROYALE), MI	No Commerce Reported	
CORNUCOPIA HARBOR, WI	No Commerce Reported	
GRAND MARAIS HARBOR, MN	No Commerce Reported	
KNIFE RIVER HARBOR, MN	No Commerce Reported	
LA POINTE HARBOR, WI	2211 gasoline 2330 distillate fuel oil 2640 liquid natural gas 7900 manufac. prod. nec	0 0 0 15
	<b>Total Tons(x1000)</b>	<b>16</b>
LUTSEN HARBOR, MN	No Commerce Reported	
PORT WING HARBOR, WI	No Commerce Reported	
WARROAD HARBOR, MN	No Commerce Reported	
Non-project		
SILVER BAY, MN	1100 coal lignite 4410 iron ore	216 2,300
	<b>Total Tons(x1000)</b>	<b>2,516</b>

## WAUKEGAN HARBOR, IL

Section Included: Artificial harbor basin of about 13.5 acres and entrance channel from Lake Michigan approximately 2,200 feet in length. Project Depth: 22 feet in entrance channel; 18 feet between piers and inner basin; 8 feet in anchorage area of approximately 6 acres.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	211	1986	464
1982	114	1987	458
1983	192	1988	480
1984	343	1989	470
1985	405	1990	490

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Lakewise Receipts
<b>Total, all commodities</b>	<b>490</b>	<b>490</b>
<b>Total crude materials, inedible except fuels</b>	<b>247</b>	<b>247</b>
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>247</b>	<b>247</b>
4323 gypsum	247	247
<b>Total primary manufactured goods</b>	<b>242</b>	<b>242</b>
<b>Subtotal lime, cement and glass</b>	<b>242</b>	<b>242</b>
5220 cement & concrete	242	242

## CHICAGO RIVER (MAIN AND NORTH BRANCH), IL (INCLUDED IN PORT OF CHICAGO)

Section Included: Main River from Rush Street to junction of North and South Branch; North Branch to North Avenue. Project Depth: 21 feet from Rush Street in the Main River to North Avenue in the North Branch, including the North Branch Canal and the North Turning Branch Basin.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	2,291	1986	2,678
1982	2,568	1987	1,814
1983	1,854	1988	1,779
1984	1,902	1989	1,709
1985	1,566	1990	2,207

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Internal				
		Inbound		Outbound	Through	
		Upbound	Upbound	Downbnd	Upbound	Downbnd
<b>Total, all commodities</b>	<b>2,207</b>	<b>1,408</b>	<b>2</b>	<b>107</b>	<b>558</b>	<b>131</b>
<b>Total coal</b>	<b>3</b>	<b>1</b>	<b>—</b>	<b>1</b>	<b>—</b>	<b>—</b>
1100 coal lignite	1	1	—	—	—	—
1200 coal coke	1	—	—	1	—	—
<b>Total petroleum and petroleum products</b>	<b>482</b>	<b>—</b>	<b>2</b>	<b>—</b>	<b>367</b>	<b>113</b>
<b>Subtotal petroleum products</b>	<b>482</b>	<b>—</b>	<b>2</b>	<b>—</b>	<b>367</b>	<b>113</b>
2211 gasoline	12	—	—	—	8	4
2330 distillate fuel oil	148	—	2	—	99	46
2340 residual fuel oil	163	—	—	—	104	59
2350 lube oil & greases	8	—	—	—	8	—
2430 asphalt, tar & pitch	132	—	—	—	129	3
2540 petroleum coke	19	—	—	—	19	—
<b>Total chemicals and related products</b>	<b>209</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>191</b>	<b>18</b>
<b>Subtotal fertilizers</b>	<b>18</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>18</b>
3110 nitrogenous fert.	18	—	—	—	—	18
<b>Subtotal other chemicals and related products</b>	<b>191</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>191</b>	<b>—</b>
3276 metallic salts	191	—	—	—	191	—
<b>Total crude materials, inedible except fuels</b>	<b>1,313</b>	<b>1,272</b>	<b>—</b>	<b>41</b>	<b>—</b>	<b>—</b>
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>1,082</b>	<b>1,082</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>
4331 sand & gravel	1,082	1,082	—	—	—	—
<b>Subtotal iron ore and scrap</b>	<b>41</b>	<b>—</b>	<b>—</b>	<b>41</b>	<b>—</b>	<b>—</b>
4420 iron & steel scrap	41	—	—	41	—	—
<b>Subtotal other non-metal. min.</b>	<b>191</b>	<b>191</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>
4900 non-metal. min. nec	191	191	—	—	—	—

CHICAGO RIVER (MAIN AND NORTH BRANCH), IL (INCLUDED IN PORT OF CHICAGO)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Grand Total	Internal					
		Inbound Upbound	Outbound Upbound	Downbnd Downbnd	Through Upbound	Through Downbnd	Through Downbnd
<b>Total primary manufactured goods</b>	<b>135</b>	<b>135</b>	-----	-----	-----	-----	-----
<b>Subtotal lime, cement and glass</b>	<b>130</b>	<b>130</b>	-----	-----	-----	-----	-----
5220 cement & concrete	130	130	-----	-----	-----	-----	-----
<b>Subtotal primary iron and steel products</b>	<b>3</b>	<b>3</b>	-----	-----	-----	-----	-----
5360 i&s bars & shapes	3	3	-----	-----	-----	-----	-----
<b>Subtotal primary non-ferrous metal products</b>	<b>1</b>	<b>1</b>	-----	-----	-----	-----	-----
5429 smelted prod. nec	1	1	-----	-----	-----	-----	-----
<b>Total food and farm products</b>	<b>7</b>	-----	-----	-----	<b>7</b>	-----	-----
<b>Subtotal other agricultural products</b>	<b>7</b>	-----	-----	-----	<b>7</b>	-----	-----
6838 tallow, animal oils	7	-----	-----	-----	7	-----	-----
<b>Total waste and scrap nec</b>	<b>58</b>	-----	-----	-----	<b>58</b>	-----	-----
8900 waste and scrap nec	58	-----	-----	-----	58	-----	-----
 <b>Ton-miles (x1000)</b>	 <b>1,587</b>				 <b>1,428</b>	 <b>0</b>	
 <b>Tons All Traffic (x1000)</b>	 <b>2,207</b>				 <b>1,587</b>	 <b>160</b>	 <b>0</b>
							 <b>0</b>

CHICAGO RIVER, SOUTH BRANCH, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN  
STATISTICS FOR ILLINOIS WATERWAY)

Section Included: Damen Avenue to Lake Street. Project Depth: 9 feet at low water stages.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	3,343	1986	3,334
1982	3,270	1987	2,371
1983	2,561	1988	2,054
1984	2,195	1989	2,220
1985	1,982	1990	2,857

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Internal			
		Inbound	Outbound	Through	
		Upbound	Downbnd	Upbound	Downbnd
<b>Total, all commodities</b>	<b>2,857</b>	<b>627</b>	<b>23</b>	<b>1,539</b>	<b>667</b>
<b>Total coal</b>	<b>411</b>	<b>408</b>	-----	<b>1</b>	<b>1</b>
1100 coal lignite	409	408	-----	1	-----
1200 coal coke	1	-----	-----	-----	1
<b>Total petroleum and petroleum products</b>	<b>482</b>	-----	-----	<b>113</b>	<b>369</b>
<b>Subtotal petroleum products</b>	<b>482</b>	-----	-----	<b>113</b>	<b>369</b>
2211 gasoline	12	-----	-----	4	8
2330 distillate fuel oil	148	-----	-----	46	102
2340 residual fuel oil	163	-----	-----	59	104
2350 lube oil & greases	8	-----	-----	-----	8
2430 asphalt, tar & pitch	132	-----	-----	3	129
2540 petroleum coke	19	-----	-----	-----	19
<b>Total chemicals and related products</b>	<b>209</b>	-----	-----	<b>18</b>	<b>191</b>
<b>Subtotal fertilizers</b>	<b>18</b>	-----	-----	<b>18</b>	-----
3110 nitrogenous fert.	18	-----	-----	18	-----
<b>Subtotal other chemicals and related products</b>	<b>191</b>	-----	-----	-----	<b>191</b>
3276 metallic salts	191	-----	-----	-----	191
<b>Total crude materials, inedible except fuels</b>	<b>1,553</b>	<b>217</b>	<b>23</b>	<b>1,272</b>	<b>41</b>
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>1,290</b>	<b>208</b>	-----	<b>1,082</b>	-----
4331 sand & gravel	1,290	208	-----	1,082	-----
<b>Subtotal iron ore and scrap</b>	<b>60</b>	-----	<b>19</b>	-----	<b>41</b>
4420 iron & steel scrap	60	-----	19	-----	41
<b>Subtotal sulphur, clay and salt</b>	<b>1</b>	<b>1</b>	-----	-----	-----
4782 clay & refrac. mat.	1	1	-----	-----	-----
<b>Subtotal other non-metal. min.</b>	<b>202</b>	<b>7</b>	<b>4</b>	<b>191</b>	-----
4900 non-metal. min. nec	202	7	4	191	-----

CHICAGO RIVER, SOUTH BRANCH, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN  
 STATISTICS FOR ILLINOIS WATERWAY)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Grand Total	Internal			
		Inbound	Outbound	Through	
		Upbound	Downbnd	Upbound	Downbnd
<b>Total primary manufactured goods</b>	<b>137</b>	2	-----	135	-----
<b>Subtotal lime, cement and glass</b>	<b>132</b>	2	-----	130	-----
5220 cement & concrete	132	2	-----	130	-----
<b>Subtotal primary iron and steel products</b>	<b>4</b>	1	-----	3	-----
5360 i&s bars & shapes	3	-----	-----	3	-----
5370 i&s pipe & tube	1	1	-----	-----	-----
<b>Subtotal primary non-ferrous metal products</b>	<b>1</b>	-----	-----	1	-----
5429 smelted prod. nec	1	-----	-----	1	-----
<b>Total food and farm products</b>	<b>7</b>	-----	-----	-----	<b>7</b>
<b>Subtotal other agricultural products</b>	<b>7</b>	-----	-----	-----	<b>7</b>
6838 tallow, animal oils	7	-----	-----	-----	7
<b>Total waste and scrap nec</b>	<b>58</b>	-----	-----	-----	<b>58</b>
8900 waste and scrap nec	58	-----	-----	-----	58
 <b>Ton-miles (x1000)</b>	 <b>11,760</b>				
		723	4	7,696	3,336
 <b>Tons All Traffic (x1000)</b>	 <b>2,857</b>				
 <b>Ton-miles All Traffic (x1000)</b>	 <b>11,760</b>				

## LAKE CALUMET, IL (INCLUDED IN PORT OF CHICAGO)

Section Included: Entrance channel from the Calumet River to a harbor area at south end of lake with a channel extending northward for a distance of 3,000 feet and a width of 1,000 feet. Project Depth: 27 feet.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	1,164	1986	1,454
1982	943	1987	1,267
1983	1,106	1988	1,261
1984	1,885	1989	1,548
1985	1,419	1990	1,304

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Foreign		Imports	Domestic				Inbound Upbound	Outbound Downbnd	
		Canadian			Total	Lakewise Receipts	Shipments	Internal			
		Imports	Exports					Total	Receipts	Shipments	
<b>Total, all commodities</b>	<b>1,304</b>	<b>33</b>	<b>9</b>	<b>202</b>	<b>1,060</b>	<b>292</b>	<b>3</b>	<b>351</b>	<b>414</b>		
Total coal	6	-----	-----	6	-----	-----	-----	-----	-----		
1100 coal lignite	6	-----	-----	6	-----	-----	-----	-----	-----		
<b>Total petroleum and petroleum products</b>	<b>61</b>	<b>-----</b>	<b>-----</b>	<b>59</b>	<b>3</b>	<b>-----</b>	<b>-----</b>	<b>3</b>	<b>-----</b>		
<b>Subtotal petroleum products</b>	<b>61</b>	<b>-----</b>	<b>-----</b>	<b>59</b>	<b>3</b>	<b>-----</b>	<b>-----</b>	<b>3</b>	<b>-----</b>		
2350 lube oil & greases	19	-----	-----	19	-----	-----	-----	-----	-----		
2429 naphtha & solvents	5	-----	-----	2	3	-----	-----	3	-----		
2430 asphalt, tar & pitch	37	-----	-----	37	-----	-----	-----	-----	-----		
<b>Total chemicals and related products</b>	<b>427</b>	<b>2</b>	<b>-----</b>	<b>126</b>	<b>299</b>	<b>-----</b>	<b>-----</b>	<b>115</b>	<b>184</b>		
<b>Subtotal other chemicals and related products</b>	<b>427</b>	<b>2</b>	<b>-----</b>	<b>126</b>	<b>299</b>	<b>-----</b>	<b>-----</b>	<b>115</b>	<b>184</b>		
3212 benzene & toluene	20	-----	-----	20	-----	-----	-----	-----	20		
3219 other hydrocarbons	67	1	-----	26	40	-----	-----	30	10		
3220 alcohols	222	-----	-----	26	197	-----	-----	54	143		
3230 carboxylic acids	1	-----	-----	1	1	-----	-----	1	-----		
3260 organic comp. nec	18	-----	-----	2	16	-----	-----	5	11		
3272 sulphuric acid	11	-----	-----	11	-----	-----	-----	-----	18		
3274 sodium hydroxide	77	-----	-----	59	18	-----	-----	18	-----		

**LAKE CALUMET, IL (INCLUDED IN PORT OF CHICAGO)**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) | | | | | | | | |

Commodity	Grand Total	Foreign		Canadian Imports	Domestic				Internal Inbound Upbound	Internal Outbound Downbnd	
		Imports	Exports		Total	Lakewise	Receipts	Shipments			
3282 pigments & paints	1	1	-----								
3286 plastics	2	-----	-----	2							
3299 chem. products nec	8	-----	-----			8				8	
<b>Total crude materials, inedible except fuels</b>	<b>146</b>	<b>0</b>	<b>8</b>	<b>12</b>	<b>125</b>	<b>13</b>	<b>3</b>	<b>26</b>	<b>83</b>		
<b>Subtotal forest products, wood and chips</b>	<b>0</b>	<b>0</b>	<b>-----</b>								
4190 forest products nec	0	0	-----								
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>5</b>	<b>-----</b>	<b>-----</b>			<b>5</b>	<b>-----</b>	<b>5</b>	<b>-----</b>		
4331 sand & gravel	5	-----	-----			5	-----				
<b>Subtotal iron ore and scrap</b>	<b>108</b>	<b>-----</b>	<b>-----</b>	<b>12</b>	<b>96</b>	<b>-----</b>	<b>3</b>	<b>9</b>	<b>83</b>		
4410 iron ore	3	-----	-----		3	-----					
4420 iron & steel scrap	105	-----	-----	12	93	-----	3	9	81		
<b>Subtotal sulphur, clay and salt</b>	<b>8</b>	<b>-----</b>	<b>8</b>								
4782 clay & refrac. mat.	8	-----	8								
<b>Subtotal other non-metal. min.</b>	<b>25</b>	<b>-----</b>	<b>-----</b>		<b>25</b>	<b>13</b>		<b>12</b>	<b>-----</b>		
4900 non-metal. min. nec	25	-----	-----		25	13					
<b>Total primary manufactured goods</b>	<b>535</b>	<b>31</b>	<b>-----</b>		<b>504</b>	<b>279</b>		<b>189</b>	<b>36</b>		
<b>Subtotal lime, cement and glass</b>	<b>242</b>	<b>-----</b>	<b>-----</b>		<b>242</b>	<b>225</b>			<b>16</b>	<b>1</b>	
5210 lime	16	-----	-----		16	-----					
5220 cement & concrete	225	-----	-----		225	225					
5290 misc. mineral prod.	1	-----	-----		1	-----					
<b>Subtotal primary iron and steel products</b>	<b>263</b>	<b>31</b>	<b>-----</b>		<b>232</b>	<b>54</b>		<b>143</b>	<b>35</b>		
5315 ferro alloys	28	-----	-----		28	-----					
5320 i&s primary forms	10	-----	-----		10	1					
5330 i&s plates & sheets	35	28	-----		7	-----					
5360 i&s bars & shapes	35	3	-----		32	-----					
5370 i&s pipe & tube	6	0	-----		6	-----					

**LAKE CALUMET, IL (INCLUDED IN PORT OF CHICAGO)**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) | | | | | | | |

Commodity	Grand Total	Foreign		Canadian Imports	Domestic				
		Imports	Exports		Total Receipts	Lakewise Shipments	Internal		
						Inbound Upbound	Outbound Downbnd		
5390 primary i&s nec	149	-----	-----		149	53	97	-----	
<b>Subtotal primary non-ferrous metal products</b>	<b>30</b>	-----	-----		<b>30</b>	-----	<b>30</b>	-----	
5480 fab. metal products	30	-----	-----		30	-----	30	-----	
<b>Subtotal primary wood products</b>	<b>0</b>	<b>0</b>	-----		-----	-----	-----	-----	
5540 primary wood prod.	0	0	-----		-----	-----	-----	-----	
<b>Total food and farm products</b>	<b>129</b>	<b>0</b>	-----		<b>129</b>	-----	<b>19</b>	<b>110</b>	
<b>Subtotal grain</b>	<b>76</b>	-----	-----		<b>76</b>	-----	<b>76</b>		
6241 wheat	10	-----	-----		10	-----	10		
6344 corn	66	-----	-----		66	-----	66		
<b>Subtotal oilseeds</b>	<b>30</b>	-----	-----		<b>30</b>	-----	<b>30</b>		
6522 soybeans	30	-----	-----		30	-----	30		
<b>Subtotal other agricultural products</b>	<b>23</b>	<b>0</b>	-----		<b>23</b>	-----	<b>19</b>	<b>4</b>	
6838 tallow, animal oils	4	-----	-----		4	-----	4		
6861 sugar	19	-----	-----		19	-----	19		
6889 food products nec	0	0	-----		-----	-----	-----		
<b>Total all manufactured equipment, machinery and products</b>	<b>0</b>	<b>0</b>	<b>0</b>		-----	-----	-----		
7120 electrical machinery	0	0	-----		-----	-----	-----		
7230 ships & boats	0	-----	0		-----	-----	-----		
7600 rubber & plastic pr.	0	0	-----		-----	-----	-----		
7900 manufac. prod. nec	0	0	-----		-----	-----	-----		
<b>Ton-miles (x1000)</b>	<b>1,209</b>		<b>9</b>	<b>202</b>	<b>965</b>	<b>292</b>	<b>3</b>	<b>320</b>	
<b>Tons All Traffic (x1000)</b>			<b>1,304</b>					<b>350</b>	
<b>Ton-miles All Traffic (x1000)</b>			<b>1,209</b>						

## CALUMET HARBOR AND RIVER, IL AND IN (INCLUDED IN PORT OF CHICAGO)

Section Included: Calumet Harbor and River to turning basin no. 5 (130th Street Bridge). Project Depth: 29 feet in approach channel, 28 feet in outer harbor anchorage area, 27 feet in river entrance channel to E. J. & E. R. R. Bridge, and 27 feet in river to and including Basin No. 5, (130th Street Bridge).

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	17,631	1986	11,481
1982	12,778	1987	9,524
1983	12,454	1988	11,889
1984	13,740	1989	12,973
1985	12,800	1990	11,689

Freight Traffic, 1990  
(thousand tons)

Commodity	Total	Foreign				Canadian		
		Imports	Exports	Through Upbound	Downbnd	Imports	Exports	Through Downbnd
<b>Total, all commodities</b>	<b>2,683</b>	<b>924</b>	<b>349</b>	<b>9</b>	<b>33</b>	<b>854</b>	<b>313</b>	<b>202</b>
<b>Total coal</b>	<b>185</b>	-----	<b>8</b>	-----	-----	<b>29</b>	<b>142</b>	<b>6</b>
1100 coal lignite	81	-----	8	-----	-----	29	39	6
1200 coal coke	104	-----	-----	-----	-----	104	-----	-----
<b>Total petroleum and petroleum products</b>	<b>418</b>	-----	<b>152</b>	-----	-----	<b>92</b>	<b>115</b>	<b>59</b>
<b>Subtotal petroleum products</b>	<b>418</b>	-----	<b>152</b>	-----	-----	<b>92</b>	<b>115</b>	<b>59</b>
2330 distillate fuel oil	11	-----	-----	-----	-----	7	3	-----
2340 residual fuel oil	3	-----	-----	-----	-----	3	-----	-----
2350 lube oil & greases	29	-----	0	-----	-----	10	-----	19
2429 naphtha & solvents	15	-----	-----	-----	-----	12	-----	2
2430 asphalt, tar & pitch	97	-----	-----	-----	-----	60	-----	37
2540 petroleum coke	264	-----	152	-----	-----	-----	112	-----
<b>Total chemicals and related products</b>	<b>295</b>	<b>15</b>	<b>34</b>	-----	<b>2</b>	<b>102</b>	<b>15</b>	<b>126</b>
<b>Subtotal fertilizers</b>	<b>102</b>	-----	<b>33</b>	-----	-----	<b>54</b>	<b>15</b>	-----
3110 nitrogenous fert.	15	-----	-----	-----	-----	-----	15	-----
3130 potassic fert.	54	-----	-----	-----	-----	54	-----	-----
3190 fert. & mixes nec	33	-----	33	-----	-----	-----	-----	-----
<b>Subtotal other chemicals and related products</b>	<b>193</b>	<b>15</b>	<b>1</b>	-----	<b>2</b>	<b>48</b>	<b>1</b>	<b>126</b>
3212 benzene & toluene	1	-----	-----	-----	-----	1	-----	-----
3219 other hydrocarbons	68	3	0	-----	1	37	-----	26
3220 alcohols	34	-----	-----	-----	-----	9	-----	26
3230 carboxylic acids	0	0	0	-----	-----	-----	-----	-----
3240 nitrogen func. comp.	1	0	0	-----	-----	0	1	-----
3250 organo-inorgan. comp	0	-----	0	-----	-----	-----	-----	-----
3260 organic comp. nec	2	-----	-----	-----	-----	-----	-----	2
3272 sulphuric acid	11	-----	-----	-----	-----	-----	-----	11
3274 sodium hydroxide	59	-----	-----	-----	-----	-----	-----	59
3275 inorg. elem., oxides, & halogen salts	8	8	-----	-----	-----	-----	-----	-----

CALUMET HARBOR AND RIVER, IL AND IN (INCLUDED IN PORT OF CHICAGO)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Total	Foreign				Canadian		
		Imports	Exports	Through Upbound	Downbnd	Imports	Exports	Through Downbnd
3276 metallic salts	0	0	-----	-----	-----	-----	-----	-----
3282 pigments & paints	3	3	0	-----	1	-----	-----	-----
3283 coloring mat. nec	0	0	-----	-----	-----	-----	-----	-----
3284 medicines	0	0	0	-----	-----	-----	-----	-----
3285 perfumes & cleansers	0	0	0	-----	-----	-----	-----	-----
3286 plastics	3	0	0	-----	-----	1	0	2
3291 pesticides	0	-----	0	-----	-----	-----	-----	-----
3292 starches,gluten,glue	0	0	-----	-----	-----	-----	-----	-----
3293 explosives	0	-----	0	-----	-----	-----	-----	-----
3297 chemical additives	0	0	0	-----	-----	-----	-----	-----
3299 chem. products nec	0	0	0	-----	-----	-----	-----	-----
<b>Total crude materials, inedible except fuels</b>	<b>797</b>	<b>20</b>	<b>130</b>	<b>8</b>	<b>0</b>	<b>616</b>	<b>12</b>	<b>12</b>
<b>Subtotal forest products, wood and chips</b>	<b>0</b>	<b>0</b>	-----	-----	<b>0</b>	-----	-----	-----
4190 forest products nec	0	0	-----	-----	0	-----	-----	-----
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>12</b>	<b>0</b>	<b>0</b>	-----	-----	<b>12</b>	-----	-----
4310 building stone	0	0	-----	-----	-----	-----	-----	-----
4331 sand & gravel	12	-----	0	-----	-----	12	-----	-----
<b>Subtotal iron ore and scrap</b>	<b>532</b>	-----	<b>73</b>	-----	-----	<b>446</b>	-----	<b>12</b>
4410 iron ore	446	-----	-----	-----	-----	446	-----	-----
4420 iron & steel scrap	85	-----	<b>73</b>	-----	-----	-----	-----	<b>12</b>
<b>Subtotal non-ferrous ores and scrap</b>	<b>19</b>	<b>19</b>	-----	-----	-----	-----	-----	-----
4670 manganese ore	19	19	-----	-----	-----	-----	-----	-----
<b>Subtotal sulphur, clay and salt</b>	<b>65</b>	-----	<b>57</b>	<b>8</b>	-----	-----	-----	-----
4782 clay & refrac. mat.	65	-----	<b>57</b>	<b>8</b>	-----	-----	-----	-----
<b>Subtotal slag</b>	<b>106</b>	-----	-----	-----	-----	<b>106</b>	-----	-----
4860 slag	106	-----	-----	-----	-----	106	-----	-----
<b>Subtotal other non-metal. min.</b>	<b>64</b>	<b>0</b>	<b>0</b>	-----	-----	<b>64</b>	-----	-----
4900 non-metal. min. nec	64	0	0	-----	-----	64	-----	-----
<b>Total primary manufactured goods</b>	<b>940</b>	<b>877</b>	<b>24</b>	-----	<b>31</b>	<b>8</b>	<b>0</b>	-----
<b>Subtotal paper products</b>	<b>0</b>	<b>0</b>	<b>0</b>	-----	-----	-----	-----	-----
5120 paper & paperboard	0	0	-----	-----	-----	-----	-----	-----
5190 paper products nec	0	0	0	-----	-----	-----	-----	-----
<b>Subtotal lime, cement and glass</b>	<b>3</b>	<b>3</b>	<b>0</b>	-----	-----	-----	<b>0</b>	-----
5240 glass & glass prod.	0	0	0	-----	-----	-----	-----	-----
5290 misc. mineral prod.	3	3	0	-----	-----	-----	0	-----
<b>Subtotal primary iron and steel products</b>	<b>931</b>	<b>869</b>	<b>24</b>	-----	<b>31</b>	<b>8</b>	<b>0</b>	-----
5312 pig iron	23	23	-----	-----	-----	-----	-----	-----
5315 ferro alloys	37	29	-----	-----	-----	8	-----	-----
5320 i&s primary forms	2	2	-----	-----	-----	-----	-----	-----

CALUMET HARBOR AND RIVER, IL AND IN (INCLUDED IN PORT OF CHICAGO)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Total	Foreign				Canadian			
		Imports	Exports	Through Upbound	Downbnd	Imports	Exports	Through Upbound	Downbnd
5330 i&s plates & sheets	767	716	24	-----	28	-----	-----	-----	-----
5360 i&s bars & shapes	87	85	-----	-----	3	-----	-----	-----	-----
5370 i&s pipe & tube	11	11	-----	-----	0	-----	-----	-----	-----
5390 primary i&s nec	4	4	-----	-----	-----	-----	0	-----	-----
<b>Subtotal primary non-ferrous metal products</b>	<b>6</b>	<b>6</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
5421 copper	0	0	0	-----	-----	-----	-----	-----	-----
5422 aluminum	0	0	-----	-----	-----	-----	-----	-----	-----
5429 smelted prod. nec	3	3	-----	-----	-----	-----	-----	-----	-----
5480 fab. metal products	2	2	0	-----	-----	0	-----	-----	-----
<b>Subtotal primary wood products</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
5540 primary wood prod.	0	-----	-----	-----	0	-----	-----	-----	-----
<b>Total food and farm products</b>	<b>36</b>	<b>1</b>	<b>0</b>	<b>-----</b>	<b>0</b>	<b>6</b>	<b>28</b>	<b>-----</b>	<b>-----</b>
<b>Subtotal grain</b>	<b>34</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>6</b>	<b>28</b>	<b>-----</b>	<b>-----</b>
6344 corn	28	-----	-----	-----	-----	-----	28	-----	-----
6442 rice	0	0	-----	-----	-----	-----	-----	-----	-----
6445 oats	6	-----	-----	-----	-----	6	-----	-----	-----
<b>Subtotal vegetable products</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
6653 vegetable oils	0	0	-----	-----	-----	-----	-----	-----	-----
6654 vegetables & prod.	0	0	0	-----	-----	-----	-----	-----	-----
<b>Subtotal processed grain and animal feed</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
6746 wheat flour	0	-----	0	-----	-----	-----	-----	-----	-----
6747 grain mill products	0	0	0	-----	-----	-----	-----	-----	-----
6782 animal feed, prep.	0	0	-----	-----	-----	-----	-----	-----	-----
<b>Subtotal other agricultural products</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>-----</b>	<b>0</b>	<b>-----</b>	<b>0</b>	<b>-----</b>	<b>-----</b>
6817 meat, prepared	0	0	-----	-----	-----	-----	-----	-----	-----
6822 dairy products	0	0	-----	-----	-----	-----	-----	-----	-----
6835 fish, prepared	0	0	-----	-----	-----	-----	-----	-----	-----
6839 animals & prod. nec	0	0	-----	-----	-----	-----	0	-----	-----
6858 fruit juices	0	0	-----	-----	-----	-----	0	-----	-----
6885 alcoholic beverages	0	0	-----	-----	-----	-----	-----	-----	-----
6889 food products nec	0	0	-----	-----	0	-----	-----	-----	-----
6899 farm products nec	0	0	0	-----	-----	-----	-----	-----	-----
<b>Total all manufactured equipment, machinery and products</b>	<b>13</b>	<b>10</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>-----</b>	<b>-----</b>
7110 machinery (not elec)	7	6	1	-----	-----	0	0	-----	-----
7120 electrical machinery	1	1	0	-----	0	-----	0	-----	-----
7210 vehicles & parts	2	2	0	-----	-----	-----	0	-----	-----
7220 aircraft & parts	0	0	-----	-----	-----	-----	-----	-----	-----
7230 ships & boats	0	-----	0	0	-----	-----	-----	-----	-----
7300 ordnance & access.	0	-----	0	-----	-----	-----	-----	-----	-----
7400 manufac. wood prod.	0	0	-----	-----	-----	-----	0	-----	-----
7500 textile products	0	0	0	-----	-----	-----	0	-----	-----
7600 rubber & plastic pr.	0	0	0	-----	0	-----	-----	-----	-----
7900 manufac. prod. nec	1	1	0	-----	0	-----	0	-----	-----

CALUMET HARBOR AND RIVER, IL AND IN (INCLUDED IN PORT OF CHICAGO)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Total	Foreign				Canadian			
		Imports	Exports	Through Upbound	Downbnd	Imports	Exports	Through Upbound	Downbnd
<b>Total unknown or not elsewhere classified</b>	<b>0</b>	<b>0</b>	-----	-----	-----	-----	-----	-----	-----
9900 unknown or nec	0	0	-----	-----	-----	-----	-----	-----	-----
<b>Ton-miles (x1000)</b>	<b>3,904</b>		<b>349</b>		<b>51</b>		<b>199</b>		
<b>Foreign &amp; Canadian</b>		<b>924</b>				<b>854</b>		<b>313</b>	
									<b>1,214</b>

Commodity	Total	Lakewise			
		Receipts	Shipments	Through Upbound	Downbnd
<b>Total, all commodities</b>	<b>3,049</b>	<b>1,905</b>	<b>849</b>	<b>3</b>	<b>292</b>
<b>Total coal</b>	<b>685</b>	-----	<b>685</b>	-----	-----
1100 coal lignite	675	-----	675	-----	-----
1200 coal coke	10	-----	10	-----	-----
<b>Total petroleum and petroleum products</b>	<b>154</b>	<b>28</b>	<b>125</b>	-----	-----
<b>Subtotal petroleum products</b>	<b>154</b>	<b>28</b>	<b>125</b>	-----	-----
2330 distillate fuel oil	51	15	36	-----	-----
2340 residual fuel oil	20	14	6	-----	-----
2540 petroleum coke	83	-----	83	-----	-----
<b>Total crude materials, inedible except fuels</b>	<b>1,823</b>	<b>1,770</b>	<b>36</b>	<b>3</b>	<b>13</b>
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>1,039</b>	<b>1,039</b>	-----	-----	-----
4322 limestone	1,023	1,023	-----	-----	-----
4331 sand & gravel	17	17	-----	-----	-----
<b>Subtotal iron ore and scrap</b>	<b>719</b>	<b>705</b>	<b>11</b>	<b>3</b>	-----
4410 iron ore	693	693	-----	-----	-----
4420 iron & steel scrap	26	13	11	3	-----
<b>Subtotal slag</b>	<b>25</b>	-----	<b>25</b>	-----	-----
4860 slag	25	-----	25	-----	-----
<b>Subtotal other non-metal. min.</b>	<b>39</b>	<b>26</b>	-----	<b>13</b>	-----
4900 non-metal. min. nec	39	26	-----	13	-----
<b>Total primary manufactured goods</b>	<b>385</b>	<b>106</b>	-----	-----	<b>279</b>
<b>Subtotal lime, cement and glass</b>	<b>321</b>	<b>96</b>	-----	<b>225</b>	-----
5220 cement & concrete	321	96	-----	225	-----
<b>Subtotal primary iron and steel products</b>	<b>64</b>	<b>10</b>	-----	-----	<b>54</b>
5315 ferro alloys	5	5	-----	-----	1
5320 i&s primary forms	1	-----	-----	-----	1
5390 primary i&s nec	57	4	-----	-----	53

CALUMET HARBOR AND RIVER, IL AND IN (INCLUDED IN PORT OF CHICAGO)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Total	Lakewise			
		Receipts	Shipments	Through	Upbound Downbnd
<b>Total all manufactured equipment, machinery and products</b>	<b>3</b>	-----	3	-----	-----
7110 machinery (not elec)	3	-----	3	-----	-----
<b>Ton-miles (x1000)</b>	<b>12,779</b>	<b>6,885</b>	<b>4,125</b>	<b>17</b>	<b>1,752</b>
<b>Lakewise</b>					

Commodity	Total	Internal					
		Inbound	Outbound	Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	
<b>Total, all commodities</b>	<b>5,956</b>	<b>2,770</b>	<b>915</b>	<b>1,010</b>	<b>1,230</b>	<b>30</b>	
<b>Total coal</b>	<b>1,989</b>	<b>1,653</b>	<b>49</b>	<b>160</b>	<b>103</b>	<b>24</b>	
1100 coal lignite	1,460	1,361	-----	5	70	24	
1200 coal coke	529	291	49	156	33	-----	
<b>Total petroleum and petroleum products</b>	<b>316</b>	<b>20</b>	<b>34</b>	<b>98</b>	<b>161</b>	<b>3</b>	
<b>Subtotal petroleum products</b>	<b>316</b>	<b>20</b>	<b>34</b>	<b>98</b>	<b>161</b>	<b>3</b>	
2211 gasoline	56	1	-----	7	48	-----	
2330 distillate fuel oil	75	-----	3	2	67	2	
2340 residual fuel oil	30	4	6	9	11	0	
2350 lube oil & greases	22	-----	-----	22	-----		
2429 naphtha & solvents	40	-----	21	19	-----		
2430 asphalt, tar & pitch	23	6	-----	4	13	-----	
2540 petroleum coke	70	9	4	57	-----		
<b>Total chemicals and related products</b>	<b>425</b>	<b>74</b>	<b>167</b>	<b>163</b>	<b>20</b>	<b>-----</b>	
<b>Subtotal fertilizers</b>	<b>212</b>	<b>52</b>	<b>2</b>	<b>139</b>	<b>20</b>	<b>-----</b>	
3110 nitrogenous fert.	171	39	-----	112	20	-----	
3120 phosphatic fert.	15	6	-----	9	-----		
3130 potassic fert.	6	6	-----	-----	-----		
3190 fert. & mixes nec	21	1	2	18	-----		
<b>Subtotal other chemicals and related products</b>	<b>212</b>	<b>22</b>	<b>165</b>	<b>25</b>	<b>-----</b>	<b>-----</b>	
3211 acyclic hydrocarbons	16	-----	16	-----	-----		
3212 benzene & toluene	33	-----	33	-----	-----		
3219 other hydrocarbons	138	7	116	15	-----		
3220 alcohols	3	3	-----	-----	-----		
3274 sodium hydroxide	9	-----	-----	9	-----		
3279 inorganic chem. nec	6	6	-----	-----	-----		
3286 plastics	7	7	-----	-----	-----		
<b>Total crude materials, inedible except fuels</b>	<b>1,558</b>	<b>458</b>	<b>228</b>	<b>560</b>	<b>313</b>	<b>-----</b>	
<b>Subtotal forest products, wood and chips</b>	<b>3</b>	<b>3</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	
4189 lumber	3	3	-----	-----	-----	-----	

CALUMET HARBOR AND RIVER, IL AND IN (INCLUDED IN PORT OF CHICAGO)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Total	Internal					
		Inbound	Outbound	Through	Intra		
		Upbound	Downbnd	Upbound	Downbnd	Upbound	
<b>Subtotal soil, sand, gravel, rock and stone</b>	7	3	4	-----	-----	-----	-----
4310 building stone	1	1	-----	-----	-----	-----	-----
4322 limestone	4	-----	4	-----	-----	-----	-----
4331 sand & gravel	2	2	-----	-----	-----	-----	-----
<b>Subtotal iron ore and scrap</b>	813	19	207	339	249	-----	-----
4410 iron ore	347	14	3	330	-----	-----	-----
4420 iron & steel scrap	467	5	204	9	249	-----	-----
<b>Subtotal marine shells</b>	9	-----	-----	9	-----	-----	-----
4515 marine shells	9	-----	-----	9	-----	-----	-----
<b>Subtotal non-ferrous ores and scrap</b>	123	35	-----	88	-----	-----	-----
4650 aluminum ore	78	1	-----	77	-----	-----	-----
4670 manganese ore	32	20	-----	12	-----	-----	-----
4690 non-ferrous ores nec	13	13	-----	-----	-----	-----	-----
<b>Subtotal sulphur, clay and salt</b>	5	-----	-----	5	-----	-----	-----
4782 clay & refrac. mat.	5	-----	-----	5	-----	-----	-----
<b>Subtotal slag</b>	187	4	9	109	65	-----	-----
4860 slag	187	4	9	109	65	-----	-----
<b>Subtotal other non-metal. min.</b>	411	395	8	9	-----	-----	-----
4900 non-metal. min. nec	411	395	8	9	-----	-----	-----
<b>Total primary manufactured goods</b>	1,133	537	40	21	532	3	-----
<b>Subtotal lime, cement and glass</b>	149	146	3	-----	-----	-----	-----
5210 lime	2	-----	2	-----	-----	-----	-----
5220 cement & concrete	147	146	2	-----	-----	-----	-----
<b>Subtotal primary iron and steel products</b>	818	377	28	19	391	3	-----
5312 pig iron	65	62	-----	3	-----	-----	-----
5315 ferro alloys	189	171	2	13	1	2	-----
5320 i&s primary forms	82	25	-----	2	55	-----	-----
5330 i&s plates & sheets	80	2	1	-----	77	-----	-----
5360 i&s bars & shapes	93	76	5	-----	13	-----	-----
5370 i&s pipe & tube	4	2	2	-----	-----	-----	-----
5390 primary i&s nec	304	40	17	2	244	1	-----
<b>Subtotal primary non-ferrous metal products</b>	166	15	9	2	141	-----	-----
5422 aluminum	3	3	-----	-----	-----	-----	-----
5429 smelted prod. nec	10	5	-----	-----	5	-----	-----
5480 fab. metal products	153	7	9	2	136	-----	-----
<b>Total food and farm products</b>	497	29	368	-----	101	-----	-----
<b>Subtotal grain</b>	288	5	200	-----	83	-----	-----
6241 wheat	33	2	7	-----	24	-----	-----
6344 corn	245	-----	185	-----	59	-----	-----
6445 oats	10	3	7	-----	-----	-----	-----
<b>Subtotal oilseeds</b>	171	-----	157	-----	13	-----	-----
6522 soybeans	171	-----	157	-----	13	-----	-----
<b>Subtotal processed grain and animal feed</b>	14	-----	10	-----	4	-----	-----
6746 wheat flour	4	-----	4	-----	-----	-----	-----
6782 animal feed, prep.	10	-----	6	-----	4	-----	-----

CALUMET HARBOR AND RIVER, IL AND IN (INCLUDED IN PORT OF CHICAGO)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Total	Internal					
		Inbound	Outbound	Through	Intra		
		Upbound	Downbnd	Upbound	Downbnd	Upbound	
<b>Subtotal other agricultural products</b>	<b>25</b>	<b>24</b>	<b>1</b>	-----	-----	-----	-----
6861 sugar	8	8	-----	-----	-----	-----	-----
6865 molasses	15	15	-----	-----	-----	-----	-----
6889 food products nec	1	-----	1	-----	-----	-----	-----
<b>Total all manufactured equipment, machinery and products</b>	<b>37</b>	<b>1</b>	<b>30</b>	<b>7</b>	-----	-----	-----
7110 machinery (not elec)	37	1	30	7	-----	-----	-----
<b>Ton-miles (x1000)</b>	<b>22,475</b>						
<b>Internal</b>		<b>7,026</b>	<b>1,924</b>	<b>6,059</b>	<b>7,382</b>	<b>84</b>	
<b>Tons All Traffic (x1000)</b>	<b>11,689</b>						
<b>Ton-miles All Traffic (x1000)</b>	<b>39,158</b>						

## PORT OF CHICAGO, IL

Section Included: Chicago Harbor, Chicago River, Main and North Branch, Chicago River, South Branch, Chicago Sanitary and Ship Canal, Calumet-Sag Channel and Lake Calumet, IL, Calumet Harbor and River, IL and IN. Project Depth: See Chicago Harbor, Chicago River, Main and North Branch, Chicago River, South Branch, Chicago Sanitary and Ship Canal, Calumet-Sag Channel and Lake Calumet, IL, Calumet Harbor and River, IL and IN.

Comparative Statement of Traffic  
 (thousand tons)

Year	Total	Year	Total
1981	31,599	1986	24,330
1982	26,820	1987	20,705
1983	24,454	1988	22,894
1984	23,813	1989	23,446
1985	22,610	1990	<b>22,541</b>

Freight Traffic, 1990  
 (thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
<b>Total, all commodities</b>	<b>2,683</b>	<b>957</b>	<b>357</b>	<b>1,056</b>	<b>313</b>
<b>Total coal</b>	<b>185</b>	-----	<b>8</b>	<b>34</b>	<b>142</b>
1100 coal lignite	81	-----	8	34	39
1200 coal coke	104	-----	-----	-----	104
<b>Total petroleum and petroleum products</b>	<b>418</b>	-----	<b>152</b>	<b>151</b>	<b>115</b>
<b>Subtotal petroleum products</b>	<b>418</b>	-----	<b>152</b>	<b>151</b>	<b>115</b>
2330 distillate fuel oil	11	-----	7	7	3
2340 residual fuel oil	3	-----	-----	3	-----

**PORT OF CHICAGO, IL**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) | |

	<b>Commodity</b>	<b>Total</b>	<b>Foreign</b>		<b>Canadian</b>	
			<b>Imports</b>	<b>Exports</b>	<b>Imports</b>	<b>Exports</b>
2350	lube oil & greases	29	-----	0	29	-----
2429	naphtha & solvents	15	-----	-----	15	-----
2430	asphalt, tar & pitch	97	-----	-----	97	-----
2540	petroleum coke	264	-----	152	-----	112
<b>Total chemicals and related products</b>		<b>295</b>	<b>17</b>	<b>34</b>	<b>228</b>	<b>15</b>
<b>Subtotal fertilizers</b>		<b>102</b>	-----	33	<b>54</b>	<b>15</b>
3110	nitrogenous fert.	15	-----	-----	-----	15
3130	potassic fert.	54	-----	-----	54	-----
3190	fert. & mixes nec	33	-----	33	-----	-----
<b>Subtotal other chemicals and related products</b>		<b>193</b>	<b>17</b>	<b>1</b>	<b>174</b>	<b>1</b>
3212	benzene & toluene	1	-----	-----	1	-----
3219	other hydrocarbons	68	4	0	64	-----
3220	alcohols	34	-----	-----	34	-----
3230	carboxylic acids	0	0	0	-----	-----
3240	nitrogen func. comp.	1	0	0	0	1
3250	organo-inorgan. comp	0	-----	0	-----	-----
3260	organic comp. nec	2	-----	-----	2	-----
3272	sulphuric acid	11	-----	-----	11	-----
3274	sodium hydroxide	59	-----	-----	59	-----
3275	inorg. elem.,oxides, & halogen salts	8	8	-----	-----	-----
3276	metallic salts	0	0	-----	-----	-----
3282	pigments & paints	3	3	0	-----	-----
3283	coloring mat. nec	0	0	-----	-----	-----
3284	medicines	0	0	0	-----	-----
3285	perfumes & cleansers	0	0	0	-----	-----
3286	plastics	3	0	0	2	0
3291	pesticides	0	-----	0	-----	-----
3292	starches,gluten,glue	0	0	-----	-----	-----
3293	explosives	0	-----	0	-----	-----
3297	chemical additives	0	0	0	-----	-----
3299	chem. products nec	0	0	0	-----	-----
<b>Total crude materials, inedible except fuels</b>		<b>797</b>	<b>20</b>	<b>138</b>	<b>628</b>	<b>12</b>
<b>Subtotal forest products, wood and chips</b>		<b>0</b>	<b>0</b>	-----	-----	-----
4190	forest products nec	0	0	-----	-----	-----
<b>Subtotal soil, sand, gravel, rock and stone</b>		<b>12</b>	<b>0</b>	<b>0</b>	-----	<b>12</b>
4310	building stone	0	0	-----	-----	-----
4331	sand & gravel	12	-----	0	-----	12
<b>Subtotal iron ore and scrap</b>		<b>532</b>	-----	<b>73</b>	<b>458</b>	-----
4410	iron ore	446	-----	-----	446	-----
4420	iron & steel scrap	85	-----	73	12	-----
<b>Subtotal non-ferrous ores and scrap</b>		<b>19</b>	<b>19</b>	-----	-----	-----
4670	manganese ore	19	19	-----	-----	-----
<b>Subtotal sulphur, clay and salt</b>		<b>65</b>	-----	<b>65</b>	-----	-----
4782	clay & refrac. mat.	65	-----	65	-----	-----
<b>Subtotal slag</b>		<b>106</b>	-----	-----	<b>106</b>	-----
4860	slag	106	-----	-----	106	-----
<b>Subtotal other non-metal. min.</b>		<b>64</b>	<b>0</b>	<b>0</b>	<b>64</b>	-----
4900	non-metal. min. nec	64	0	0	64	-----

**PORT OF CHICAGO, IL**  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
<b>Total primary manufactured goods</b>	<b>940</b>	<b>908</b>	<b>24</b>	<b>8</b>	<b>0</b>
<b>Subtotal paper products</b>	<b>0</b>	<b>0</b>	<b>0</b>	-----	-----
5120 paper & paperboard	0	0	-----	-----	-----
5190 paper products nec	0	0	0	-----	-----
<b>Subtotal lime, cement and glass</b>	<b>3</b>	<b>3</b>	<b>0</b>	-----	<b>0</b>
5240 glass & glass prod.	0	0	0	-----	-----
5290 misc. mineral prod.	3	3	0	-----	0
<b>Subtotal primary iron and steel products</b>	<b>931</b>	<b>900</b>	<b>24</b>	<b>8</b>	<b>0</b>
5312 pig iron	23	23	-----	-----	-----
5315 ferro alloys	37	29	-----	8	-----
5320 i&s primary forms	2	2	-----	-----	-----
5330 i&s plates & sheets	767	744	24	-----	-----
5360 i&s bars & shapes	87	87	-----	-----	-----
5370 i&s pipe & tube	11	11	-----	-----	-----
5390 primary i&s nec	4	4	-----	-----	0
<b>Subtotal primary non-ferrous metal products</b>	<b>6</b>	<b>6</b>	<b>0</b>	<b>0</b>	-----
5421 copper	0	0	0	-----	-----
5422 aluminum	0	0	-----	-----	-----
5429 smelted prod. nec	3	3	-----	-----	-----
5480 fab. metal products	2	2	0	0	-----
<b>Subtotal primary wood products</b>	<b>0</b>	<b>0</b>	-----	-----	-----
5540 primary wood prod.	0	0	-----	-----	-----
<b>Total food and farm products</b>	<b>36</b>	<b>1</b>	<b>0</b>	<b>6</b>	<b>28</b>
<b>Subtotal grain</b>	<b>34</b>	<b>0</b>	-----	<b>6</b>	<b>28</b>
6344 corn	28	-----	-----	6	28
6442 rice	0	0	-----	-----	-----
6445 oats	6	-----	-----	6	-----
<b>Subtotal vegetable products</b>	<b>0</b>	<b>0</b>	<b>0</b>	-----	-----
6653 vegetable oils	0	0	-----	-----	-----
6654 vegetables & prod.	0	0	0	-----	-----
<b>Subtotal processed grain and animal feed</b>	<b>1</b>	<b>0</b>	<b>0</b>	-----	-----
6746 wheat flour	0	-----	0	-----	-----
6747 grain mill products	0	0	0	-----	-----
6782 animal feed, prep.	0	0	-----	-----	-----
<b>Subtotal other agricultural products</b>	<b>1</b>	<b>1</b>	<b>0</b>	-----	<b>0</b>
6817 meat, prepared	0	0	-----	-----	-----
6822 dairy products	0	0	-----	-----	-----
6835 fish, prepared	0	0	-----	-----	-----
6839 animals & prod. nec	0	0	-----	-----	-----
6858 fruit juices	0	0	-----	-----	0
6885 alcoholic beverages	0	0	-----	-----	-----
6889 food products nec	0	0	-----	-----	-----
6899 farm products nec	0	0	0	-----	-----
<b>Total all manufactured equipment, machinery and products</b>	<b>13</b>	<b>10</b>	<b>2</b>	<b>0</b>	<b>1</b>
7110 machinery (not elec)	7	6	1	0	0
7120 electrical machinery	1	1	0	-----	0
7210 vehicles & parts	2	2	0	-----	0
7220 aircraft & parts	0	0	-----	-----	-----

**PORT OF CHICAGO, IL**  
 Freight Traffic, 1990 - continued  
 (thousand tons)

	Commodity	Total	Foreign		Canadian	
			Imports	Exports	Imports	Exports
7230	ships & boats	0	-----	0	-----	-----
7300	ordnance & access.	0	-----	0	-----	-----
7400	manufac. wood prod.	0	0	-----	-----	-----
7500	textile products	0	0	0	-----	0
7600	rubber & plastic pr.	0	0	0	-----	-----
7900	manufac. prod. nec	1	1	0	-----	0
<b>Total unknown or not elsewhere classified</b>		<b>0</b>	<b>0</b>	-----	-----	-----
9900	unknown or nec	0	0	-----	-----	-----

Commodity	Total	Domestic					
		Coastwise		Lakewise		Internal	
		Shipments	Receipts	Shipments	Receipts	Shipments	Intraport
<b>Total, all commodities</b>	<b>19,858</b>	<b>4</b>	<b>2,197</b>	<b>852</b>	<b>10,141</b>	<b>3,813</b>	<b>2,851</b>
<b>Total coal</b>	<b>4,487</b>	-----	-----	<b>685</b>	<b>3,292</b>	<b>436</b>	<b>74</b>
1100 coal lignite	3,686	-----	-----	675	2,987	-----	24
1200 coal coke	801	-----	-----	10	305	436	50
<b>Total petroleum and petroleum products</b>	<b>3,449</b>	-----	<b>28</b>	<b>125</b>	<b>1,425</b>	<b>1,069</b>	<b>802</b>
<b>Subtotal crude petroleum</b>	<b>12</b>	-----	-----	-----	-----	<b>12</b>	-----
2100 crude petroleum	12	-----	-----	-----	-----	12	-----
<b>Subtotal petroleum products</b>	<b>3,437</b>	-----	<b>28</b>	<b>125</b>	<b>1,425</b>	<b>1,057</b>	<b>802</b>
2211 gasoline	325	-----	-----	-----	125	68	133
2221 kerosene	8	-----	-----	-----	8	-----	-----
2330 distillate fuel oil	652	-----	15	36	136	255	210
2340 residual fuel oil	860	-----	14	6	305	410	126
2350 lube oil & greases	260	-----	-----	-----	260	-----	-----
2429 naphtha & solvents	265	-----	-----	-----	163	60	42
2430 asphalt, tar & pitch	890	-----	-----	-----	361	251	278
2540 petroleum coke	172	-----	-----	83	62	14	13
2990 petro. products nec	4	-----	-----	-----	4	-----	-----
<b>Total chemicals and related products</b>	<b>1,906</b>	-----	-----	-----	<b>1,338</b>	<b>353</b>	<b>214</b>
<b>Subtotal fertilizers</b>	<b>84</b>	-----	-----	-----	<b>69</b>	<b>15</b>	-----
3110 nitrogenous fert.	66	-----	-----	-----	52	14	-----
3120 phosphatic fert.	8	-----	-----	-----	8	-----	-----
3130 potassic fert.	7	-----	-----	-----	7	-----	-----
3190 fert. & mixes nec	3	-----	-----	-----	1	2	-----
<b>Subtotal other chemicals and related products</b>	<b>1,822</b>	-----	-----	-----	<b>1,270</b>	<b>338</b>	<b>214</b>
3211 acyclic hydrocarbons	18	-----	-----	-----	1	16	-----
3212 benzene & toluene	138	-----	-----	-----	18	76	43
3219 other hydrocarbons	305	-----	-----	-----	129	131	44
3220 alcohols	559	-----	-----	-----	410	27	123

**PORT OF CHICAGO, IL**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) |

Commodity	Total	Domestic					
		Coastwise		Lakewise		Internal	
		Shipments	Receipts	Shipments	Receipts	Shipments	Intraport
3230 carboxylic acids	14	-----	-----	-----	14	-----	-----
3260 organic comp. nec	59	-----	-----	-----	47	9	3
3274 sodium hydroxide	373	-----	-----	-----	370	1	1
3275 inorg. elem., oxides, & halogen salts	48	-----	-----	-----	43	4	-----
3276 metallic salts	235	-----	-----	-----	191	44	-----
3279 inorganic chem. nec	6	-----	-----	-----	6	-----	-----
3284 medicines	3	-----	-----	-----	-----	3	-----
3286 plastics	7	-----	-----	-----	7	-----	-----
3297 chemical additives	4	-----	-----	-----	-----	4	-----
3298 wood & resin chem.	1	-----	-----	-----	-----	1	-----
3299 chem. products nec	55	-----	-----	-----	34	21	-----
<b>Total crude materials, Inedible except fuels</b>	<b>6,617</b>	-----	<b>1,784</b>	<b>39</b>	<b>2,223</b>	<b>920</b>	<b>1,651</b>
<b>Subtotal forest products, wood and chips</b>	<b>3</b>	-----	-----	-----	3	-----	-----
4189 lumber	3	-----	-----	-----	3	-----	-----
<b>Subtotal pulp and waste paper</b>	<b>2</b>	-----	-----	-----	2	-----	-----
4225 pulp & waste paper	2	-----	-----	-----	2	-----	-----
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>4,281</b>	-----	<b>1,039</b>	-----	<b>1,201</b>	<b>393</b>	<b>1,649</b>
4310 building stone	1	-----	-----	-----	1	-----	-----
4322 limestone	1,037	-----	1,023	-----	11	4	-----
4331 sand & gravel	3,243	-----	17	-----	1,189	389	1,649
<b>Subtotal iron ore and scrap</b>	<b>1,245</b>	-----	<b>705</b>	<b>14</b>	<b>31</b>	<b>491</b>	<b>3</b>
4410 iron ore	712	-----	693	-----	13	3	3
4420 iron & steel scrap	533	-----	13	14	18	489	-----
<b>Subtotal non-ferrous ores and scrap</b>	<b>38</b>	-----	-----	-----	<b>38</b>	-----	-----
4650 aluminum ore	1	-----	-----	-----	1	-----	-----
4670 manganese ore	23	-----	-----	-----	23	-----	-----
4690 non-ferrous ores nec	13	-----	-----	-----	13	-----	-----
<b>Subtotal sulphur, clay and salt</b>	<b>6</b>	-----	-----	-----	<b>6</b>	-----	-----
4782 clay & refrac. mat.	6	-----	-----	-----	6	-----	-----
<b>Subtotal slag</b>	<b>42</b>	-----	<b>25</b>	-----	<b>7</b>	<b>10</b>	-----
4860 slag	42	-----	25	-----	7	10	-----
<b>Subtotal other non-metal. min.</b>	<b>1,000</b>	-----	<b>39</b>	-----	<b>936</b>	<b>26</b>	-----
4900 non-metal. min. nec	1,000	-----	39	-----	936	26	-----
<b>Total primary manufactured goods</b>	<b>2,275</b>	-----	<b>385</b>	-----	<b>1,761</b>	<b>97</b>	<b>31</b>
<b>Subtotal lime, cement and glass</b>	<b>1,330</b>	-----	<b>321</b>	-----	<b>1,005</b>	<b>4</b>	-----
5210 lime	19	-----	-----	-----	17	2	-----
5220 cement & concrete	1,309	-----	321	-----	986	2	-----
5290 misc. mineral prod.	2	-----	-----	-----	1	1	-----
<b>Subtotal primary iron and steel products</b>	<b>782</b>	-----	<b>64</b>	-----	<b>604</b>	<b>83</b>	<b>31</b>
5312 pig iron	96	-----	-----	-----	96	-----	-----
5315 ferro alloys	183	-----	5	-----	146	2	29

**PORT OF CHICAGO, IL**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) | | | | | |

Commodity	Total	Domestic					
		Coastwise		Lakewise		Internal	
		Shipments	Receipts	Shipments	Receipts	Shipments	Intraport
5320 i&s primary forms	80	-----	1	-----	34	45	-----
5330 i&s plates & sheets	16	-----	-----	-----	8	9	-----
5360 i&s bars & shapes	151	-----	-----	-----	144	6	1
5370 i&s pipe & tube	15	-----	-----	-----	11	4	0
5390 primary i&s nec	240	-----	57	-----	164	17	1
<b>Subtotal primary non-ferrous metal products</b>	<b>161</b>	-----	-----	-----	<b>150</b>	<b>10</b>	-----
5422 aluminum	3	-----	-----	-----	3	-----	-----
5429 smelted prod. nec	9	-----	-----	-----	9	-----	-----
5480 fab. metal products	149	-----	-----	-----	139	10	-----
<b>Subtotal primary wood products</b>	<b>2</b>	-----	-----	-----	<b>2</b>	-----	-----
5540 primary wood prod.	2	-----	-----	-----	2	-----	-----
<b>Total food and farm products</b>	<b>1,005</b>	-----	-----	-----	<b>99</b>	<b>906</b>	-----
<b>Subtotal grain</b>	<b>595</b>	-----	-----	-----	<b>5</b>	<b>590</b>	-----
6241 wheat	44	-----	-----	-----	2	42	-----
6344 corn	541	-----	-----	-----	-----	541	-----
6445 oats	10	-----	-----	-----	3	7	-----
<b>Subtotal oilseeds</b>	<b>293</b>	-----	-----	-----	<b>293</b>	-----	-----
6522 soybeans	293	-----	-----	-----	-----	293	-----
<b>Subtotal processed grain and animal feed</b>	<b>10</b>	-----	-----	-----	-----	<b>10</b>	-----
6746 wheat flour	4	-----	-----	-----	-----	4	-----
6782 animal feed, prep.	6	-----	-----	-----	-----	6	-----
<b>Subtotal other agricultural products</b>	<b>107</b>	-----	-----	-----	<b>94</b>	<b>14</b>	-----
6838 tallow, animal oils	13	-----	-----	-----	-----	13	-----
6861 sugar	61	-----	-----	-----	61	-----	-----
6865 molasses	32	-----	-----	-----	32	-----	-----
6889 food products nec	1	-----	-----	-----	-----	1	-----
<b>Total all manufactured equipment, machinery and products</b>	<b>41</b>	<b>4</b>	-----	<b>3</b>	<b>3</b>	<b>31</b>	-----
7110 machinery (not elec)	41	4	-----	3	3	31	-----
<b>Total waste and scrap nec</b>	<b>78</b>	-----	-----	-----	-----	-----	<b>78</b>
8900 waste and scrap nec	78	-----	-----	-----	-----	-----	78

## INDIANA HARBOR, IN

Section Included: Approach channel, outer harbor and canal entrance channel to the first E. J. & E. R. R. Bridge; Indiana Harbor Canal, including the Calumet River Branch to Columbus Drive Bridge and the Lake George Branch to 0.2 miles past Indianapolis Blvd. Project Depth: 29 feet in approach channel, 28 feet in harbor basin, 27 feet in canal entrance channel, and 22 feet in remainder of canal to 0.2 miles past Indianapolis Blvd. on Lake George Branch and Columbus Drive on Calumet River Branch.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	18,375	1986	14,014
1982	12,304	1987	13,335
1983	14,475	1988	16,643
1984	14,569	1989	15,055
1985	13,549	1990	14,673

Freight Traffic, 1990  
(thousand tons)

Commodity	Total	Foreign Imports	Canadian Imports	Canadian Exports
<b>Total, all commodities</b>	<b>260</b>	<b>18</b>	<b>241</b>	<b>1</b>
<b>Total coal</b>	<b>198</b>	<b>-----</b>	<b>198</b>	<b>-----</b>
1100 coal lignite	198	-----	198	-----
<b>Total petroleum and petroleum products</b>	<b>14</b>	<b>-----</b>	<b>14</b>	<b>-----</b>
<b>Subtotal petroleum products</b>	<b>14</b>	<b>-----</b>	<b>14</b>	<b>-----</b>
2340 residual fuel oil	14	-----	14	-----
<b>Total chemicals and related products</b>	<b>0</b>	<b>0</b>	<b>-----</b>	<b>-----</b>
<b>Subtotal other chemicals and related products</b>	<b>0</b>	<b>0</b>	<b>-----</b>	<b>-----</b>
3284 medicines	0	0	-----	-----
<b>Total crude materials, inedible except fuels</b>	<b>46</b>	<b>17</b>	<b>28</b>	<b>1</b>
<b>Subtotal iron ore and scrap</b>	<b>28</b>	<b>-----</b>	<b>28</b>	<b>-----</b>
4410 iron ore	28	-----	28	-----
<b>Subtotal non-ferrous ores and scrap</b>	<b>17</b>	<b>17</b>	<b>-----</b>	<b>-----</b>
4670 manganese ore	17	17	-----	-----
<b>Subtotal slag</b>	<b>1</b>	<b>-----</b>	<b>0</b>	<b>1</b>
4860 slag	1	-----	0	1
<b>Total primary manufactured goods</b>	<b>1</b>	<b>1</b>	<b>-----</b>	<b>-----</b>
<b>Subtotal primary iron and steel products</b>	<b>0</b>	<b>0</b>	<b>-----</b>	<b>-----</b>
5330 i&s plates & sheets	0	0	-----	-----
5370 i&s pipe & tube	0	0	-----	-----
<b>Subtotal primary non-ferrous metal products</b>	<b>1</b>	<b>1</b>	<b>-----</b>	<b>-----</b>
5422 aluminum	0	0	-----	-----
5480 fab. metal products	1	1	-----	-----
<b>Total food and farm products</b>	<b>0</b>	<b>0</b>	<b>-----</b>	<b>-----</b>
<b>Subtotal vegetable products</b>	<b>0</b>	<b>0</b>	<b>-----</b>	<b>-----</b>
6653 vegetable oils	0	0	-----	-----

INDIANA HARBOR, IN  
Freight Traffic, 1990 - continued  
(thousand tons)

Commodity	Total	Foreign	Canadian	
		Imports	Imports	Exports
<b>Total all manufactured equipment, machinery and products</b>	0	0	-----	-----
7110 machinery (not elec)	0	0	-----	-----
7230 ships & boats	0	0	-----	-----
7600 rubber & plastic pr.	0	0	-----	-----

Commodity	Total	Domestic			
		Lakewise		Internal	
		Receipts	Shipments	Shipments	
<b>Total, all commodities</b>	14,413	11,349	1,745	357	927 35
<b>Total coal</b>	120	-----	-----	38	82 -----
1100 coal lignite	70	-----	-----	-----	70 -----
1200 coal coke	50	-----	-----	38	12 -----
<b>Total petroleum and petroleum products</b>	2,302	38	1,536	171	526 32
<b>Subtotal petroleum products</b>	2,302	38	1,536	171	526 32
2211 gasoline	677	5	605	11	56 -----
2330 distillate fuel oil	541	33	288	49	167 6
2340 residual fuel oil	248	-----	41	68	112 27
2350 lube oil & greases	30	-----	-----	-----	30 -----
2429 naphtha & solvents	19	-----	-----	19	-----
2430 asphalt, tar & pitch	668	-----	520	7	142 -----
2540 petroleum coke	120	-----	83	18	19 -----
<b>Total chemicals and related products</b>	4	-----	-----	-----	4 -----
<b>Subtotal fertilizers</b>	4	-----	-----	-----	4 -----
3110 nitrogenous fert.	4	-----	-----	-----	4 -----
<b>Total crude materials, inedible except fuels</b>	11,921	11,311	209	134	263 3
<b>Subtotal soil, sand, gravel, rock and stone</b>	884	884	-----	-----	-----
4322 limestone	774	774	-----	-----	-----
4323 gypsum	110	110	-----	-----	-----
<b>Subtotal iron ore and scrap</b>	10,634	10,321	13	79	218 3
4410 iron ore	10,382	10,307	-----	75	-----
4420 iron & steel scrap	252	14	13	4	218 3
<b>Subtotal sulphur, clay and salt</b>	106	106	-----	-----	-----
4782 clay & refrac. mat.	106	106	-----	-----	-----
<b>Subtotal slag</b>	291	-----	196	49	45 -----
4860 slag	291	-----	196	49	45 -----
<b>Subtotal other non-metal. min.</b>	6	-----	-----	6	-----
4900 non-metal. min. nec	6	-----	-----	6	-----

**INDIANA HARBOR, IN**  
**Freight Traffic, 1990 - continued**  
 (thousand tons)

Commodity	Total	Domestic			
		Lakewise		Internal	
		Receipts	Shipments	Receipts	Shipments
<b>Total primary manufactured goods</b>	<b>66</b>	-----	-----	<b>14</b>	<b>52</b> -----
<b>Subtotal primary Iron and steel products</b>	<b>34</b>	-----	-----	<b>12</b>	<b>21</b> -----
5315 ferro alloys	9	-----	-----	9	-----
5320 i&s primary forms	3	-----	-----	2	1 -----
5330 i&s plates & sheets	1	-----	-----	-----	1 -----
5360 i&s bars & shapes	1	-----	-----	-----	1 -----
5390 primary i&s nec	19	-----	-----	2	17 -----
<b>Subtotal primary non-ferrous metal products</b>	<b>32</b>	-----	-----	<b>2</b>	<b>30</b> -----
5480 fab. metal products	32	-----	-----	2	30 -----
<b>Total all manufactured equipment, machinery and products</b>	<b>0</b>	-----	-----	<b>0</b>	<b>-----</b>
7110 machinery (not elec)	0	-----	-----	0	-----

BURNS WATERWAY HARBOR, IN

Section Included: Approach channel, outer harbor, and two harbor arms. Project Depth: 30 feet in approach channel, 28 feet in outer harbor, and 27 feet in the east and west harbor arms.

Comparative Statement of Traffic  
 (thousand tons)

Year	Total	Year	Total
1981	7,367	1986	6,750
1982	5,458	1987	7,093
1983	6,332	1988	7,468
1984	8,791	1989	8,695
1985	8,179	1990	9,524

Freight Traffic, 1990  
 (thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
<b>Total, all commodities</b>	<b>2,203</b>	<b>178</b>	<b>382</b>	<b>1,557</b>	<b>86</b>
<b>Total coal</b>	<b>143</b>	-----	-----	<b>58</b>	<b>85</b>
1100 coal lignite	58	-----	-----	58	-----
1200 coal coke	85	-----	-----	-----	85
<b>Total petroleum and petroleum products</b>	<b>53</b>	-----	<b>45</b>	<b>8</b>	-----
<b>Subtotal petroleum products</b>	<b>53</b>	-----	<b>45</b>	<b>8</b>	-----
2430 asphalt, tar & pitch	8	-----	-----	8	-----
2540 petroleum coke	45	-----	45	-----	-----

**BURNS WATERWAY HARBOR, IN**  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
<b>Total chemicals and related products</b>	183	0	-----	183	0
<b>Subtotal fertilizers</b>	183	-----	-----	183	-----
3110 nitrogenous fert.	2	-----	-----	2	-----
3130 potassic fert.	180	-----	-----	180	-----
<b>Subtotal other chemicals and related products</b>	0	0	-----	-----	0
3230 carboxylic acids	0	0	-----	-----	0
3279 inorganic chem. nec	0	-----	-----	-----	0
<b>Total crude materials, inedible except fuels</b>	1,421	45	86	1,290	0
<b>Subtotal iron ore and scrap</b>	1,369	29	78	1,262	-----
4410 iron ore	1,291	29	-----	1,262	-----
4420 iron & steel scrap	78	-----	78	-----	-----
<b>Subtotal non-ferrous ores and scrap</b>	21	17	5	-----	-----
4650 aluminum ore	17	17	-----	-----	-----
4680 non-ferrous scrap	5	-----	5	-----	-----
<b>Subtotal sulphur, clay and salt</b>	0	-----	-----	-----	0
4782 clay & refrac. mat.	0	-----	-----	-----	0
<b>Subtotal slag</b>	3	-----	3	-----	-----
4860 slag	3	-----	3	-----	-----
<b>Subtotal other non-metal. min.</b>	28	-----	-----	28	-----
4900 non-metal. min. nec	28	-----	-----	28	-----
<b>Total primary manufactured goods</b>	325	130	187	8	-----
<b>Subtotal primary Iron and steel products</b>	325	130	187	8	-----
5312 pig iron	65	63	-----	2	-----
5315 ferro alloys	9	3	-----	5	-----
5320 i&s primary forms	38	38	-----	-----	-----
5330 i&s plates & sheets	211	25	187	-----	-----
5360 i&s bars & shapes	2	2	-----	-----	-----
5370 i&s pipe & tube	0	0	-----	-----	-----
<b>Subtotal primary non-ferrous metal products</b>	0	0	-----	-----	-----
5422 aluminum	0	0	-----	-----	-----
5480 fab. metal products	0	0	-----	-----	-----
<b>Total food and farm products</b>	70	-----	58	12	-----
<b>Subtotal grain</b>	70	-----	58	12	-----
6344 corn	58	-----	58	-----	-----
6445 oats	12	-----	-----	12	-----
<b>Total all manufactured equipment, machinery and products</b>	9	2	7	-----	0
7110 machinery (not elec)	9	2	7	-----	-----
7120 electrical machinery	0	0	-----	-----	-----
7210 vehicles & parts	0	-----	-----	0	-----
7500 textile products	0	0	-----	-----	-----
7600 rubber & plastic pr.	0	0	-----	-----	-----
7900 manufac. prod. nec	0	0	-----	-----	-----

BURNS WATERWAY HARBOR, IN  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
<b>Total unknown or not elsewhere classified</b>	<b>0</b>	-----	-----	<b>0</b>	-----
9900 unknown or nec	0	-----	-----	0	-----

Commodity	Total	Domestic			
		Lakewise		Internal	
		Receipts	Shipments	Receipts	Shipments
<b>Total, all commodities</b>	<b>7,321</b>	<b>6,348</b>	<b>106</b>	<b>413</b>	<b>453</b>
<b>Total coal</b>	<b>122</b>	-----	-----	<b>122</b>	-----
1100 coal lignite	5	-----	-----	5	-----
1200 coal coke	118	-----	-----	118	-----
<b>Total petroleum and petroleum products</b>	<b>123</b>	<b>53</b>	<b>36</b>	<b>35</b>	-----
<b>Subtotal petroleum products</b>	<b>123</b>	<b>53</b>	<b>36</b>	<b>35</b>	-----
2330 distillate fuel oil	52	52	-----	-----	-----
2340 residual fuel oil	1	1	-----	-----	-----
2540 petroleum coke	71	-----	36	35	-----
<b>Total chemicals and related products</b>	<b>159</b>	-----	-----	<b>159</b>	-----
<b>Subtotal fertilizers</b>	<b>143</b>	-----	-----	<b>143</b>	-----
3110 nitrogenous fert.	117	-----	-----	117	-----
3120 phosphatic fert.	9	-----	-----	9	-----
3190 fert. & mixes nec	18	-----	-----	18	-----
<b>Subtotal other chemicals and related products</b>	<b>15</b>	-----	-----	<b>15</b>	-----
3219 other hydrocarbons	15	-----	-----	15	-----
<b>Total crude materials, Inedible except fuels</b>	<b>6,447</b>	<b>6,295</b>	<b>32</b>	<b>87</b>	<b>33</b>
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>381</b>	<b>381</b>	-----	-----	-----
4322 limestone	381	381	-----	-----	-----
<b>Subtotal iron ore and scrap</b>	<b>5,861</b>	<b>5,772</b>	-----	<b>58</b>	<b>30</b>
4410 iron ore	5,831	5,772	-----	58	-----
4420 iron & steel scrap	30	-----	-----	-----	30
<b>Subtotal marine shells</b>	<b>9</b>	-----	-----	<b>9</b>	-----
4515 marine shells	9	-----	-----	9	-----
<b>Subtotal non-ferrous ores and scrap</b>	<b>12</b>	-----	-----	<b>12</b>	-----
4670 manganese ore	12	-----	-----	12	-----
<b>Subtotal sulphur, clay and salt</b>	<b>5</b>	-----	-----	<b>5</b>	-----
4782 clay & refrac. mat.	5	-----	-----	5	-----
<b>Subtotal slag</b>	<b>129</b>	<b>94</b>	<b>32</b>	-----	<b>3</b>
4860 slag	129	94	32	-----	3
<b>Subtotal other non-metal. min.</b>	<b>51</b>	<b>47</b>	-----	<b>3</b>	-----
4900 non-metal. min. nec	51	47	-----	3	-----

BURNS WATERWAY HARBOR, IN  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Total	Domestic		
		Lakewise		Internal Shipments
		Receipts	Shipments	
<b>Total primary manufactured goods</b>	<b>361</b>	-----	<b>37</b>	4 <b>319</b> 1
<b>Subtotal primary iron and steel products</b>	<b>276</b>	-----	<b>37</b>	4 <b>236</b> -----
5312    pig iron	3	-----	3	-----
5315    ferro alloys	8	-----	5	1    -----
5320    i&s primary forms	19	-----	-----	19    -----
5330    i&s plates & sheets	39	-----	-----	39    -----
5360    i&s bars & shapes	4	-----	-----	4    -----
5390    primary i&s nec	203	-----	31	----- 172 -----
<b>Subtotal primary non-ferrous metal products</b>	<b>85</b>	-----	-----	83    1
5480    fab. metal products	85	-----	-----	83    1
<b>Total food and farm products</b>	<b>101</b>	-----	-----	<b>101</b> -----
<b>Subtotal grain</b>	<b>83</b>	-----	-----	83 -----
6241    wheat	24	-----	-----	24 -----
6344    corn	59	-----	-----	59 -----
<b>Subtotal oilseeds</b>	<b>13</b>	-----	-----	<b>13</b> -----
6522    soybeans	13	-----	-----	13 -----
<b>Subtotal processed grain and animal feed</b>	<b>4</b>	-----	-----	<b>4</b> -----
6782    animal feed, prep.	4	-----	-----	4 -----
<b>Total all manufactured equipment, machinery and products</b>	<b>7</b>	-----	<b>2</b>	5 -----
7110    machinery (not elec)	7	-----	2	5 -----

## Other Harbors and Waterways

Harbor or Waterway	Commodity	Tons Thousand
Project		
CHICAGO HARBOR, IL (INCLUDED IN PORT OF CHICAGO)	No Commerce Reported	
MICHIGAN CITY HARBOR, IN	No Commerce Reported	
Non-project		
BUFFINGTON HARBOR, IN	2330 distillate fuel oil 2340 residual fuel oil 4322 limestone 4650 aluminum ore 4860 slag	1 1 669 77 56
	<b>Total Tons(x1000)</b>	<b>804</b>
GARY HARBOR, IN	1200 coal coke 2330 distillate fuel oil 2340 residual fuel oil 2540 petroleum coke 3110 nitrogenous fert. 4322 limestone 4410 iron ore 4420 iron & steel scrap 4860 slag 5315 ferro alloys 5320 i&s primary forms 5330 i&s plates & sheets 5360 i&s bars & shapes 5390 primary i&s nec 5429 smelted prod. nec 5480 fab. metal products 6889 food products nec 7110 machinery (not elec) 7120 electrical machinery	21 4 15 5 16 419 8,569 5 354 3 36 37 8 81 5 23 0 5 0
	<b>Total Tons(x1000)</b>	<b>9,605</b>

## PRESQUE ISLE HARBOR, MI

Section Included: Entire harbor. Controlling and Project Depths: 30 feet in approach and 28 feet in basin.  
 Navigation Season: March 31 to January 21.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	8,120	1986	4,702
1982	3,364	1987	9,333
1983	5,130	1988	11,433
1984	6,848	1989	12,156
1985	7,203	1990	7,737

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Foreign	Canadian		Domestic		
		Imports	Imports	Exports	Total	Lakewise Receipts	Shipments
<b>Total, all commodities</b>	<b>7,737</b>	<b>2</b>	<b>65</b>	<b>2,205</b>	<b>5,465</b>	<b>1,659</b>	<b>3,806</b>
<b>Total coal</b>	<b>1,393</b>	-----	-----	-----	<b>1,393</b>	<b>1,393</b>	-----
1100 coal lignite	1,393	-----	-----	-----	1,393	1,393	-----
<b>Total petroleum and petroleum products</b>	<b>8</b>	-----	<b>8</b>	-----	-----	-----	-----
<b>Subtotal petroleum products</b>	<b>8</b>	-----	<b>8</b>	-----	-----	-----	-----
2330 distillate fuel oil	8	-----	8	-----	-----	-----	-----
<b>Total chemicals and related products</b>	<b>0</b>	<b>0</b>	-----	-----	-----	-----	-----
<b>Subtotal other chemicals and related products</b>	<b>0</b>	<b>0</b>	-----	-----	-----	-----	-----
3220 alcohols	0	0	-----	-----	-----	-----	-----
3230 carboxylic acids	0	0	-----	-----	-----	-----	-----
3275 inorg. elem., oxides, & halogen salts	0	0	-----	-----	-----	-----	-----
3276 metallic salts	0	0	-----	-----	-----	-----	-----
3282 pigments & paints	0	0	-----	-----	-----	-----	-----
3284 medicines	0	0	-----	-----	-----	-----	-----
3285 perfumes & cleansers	0	0	-----	-----	-----	-----	-----
3286 plastics	0	0	-----	-----	-----	-----	-----
<b>Total crude materials, inedible except fuels</b>	<b>6,334</b>	-----	<b>57</b>	<b>2,205</b>	<b>4,072</b>	<b>266</b>	<b>3,806</b>
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>404</b>	-----	-----	<b>131</b>	<b>273</b>	<b>266</b>	<b>7</b>
4322 limestone	273	-----	-----	273	266	7	-----
4331 sand & gravel	131	-----	-----	131	-----	-----	-----
<b>Subtotal iron ore and scrap</b>	<b>5,873</b>	-----	-----	<b>2,073</b>	<b>3,799</b>	-----	<b>3,799</b>
4410 iron ore	5,873	-----	-----	2,073	3,799	-----	3,799
<b>Subtotal other non-metal. min.</b>	<b>57</b>	-----	<b>57</b>	-----	-----	-----	-----
4900 non-metal. min. nec	57	-----	57	-----	-----	-----	-----

PRESQUE ISLE HARBOR, MI  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic	
		Imports			Exports	Total	Lakewise
			Imports	Exports		Receipts	Shipments
<b>Total primary manufactured goods</b>	1	1	0	-----		-----	-----
<b>Subtotal paper products</b>	0	0	0	-----		-----	-----
5120 paper & paperboard	0	0	0	-----		-----	-----
<b>Subtotal lime, cement and glass</b>	0	0	0	-----		-----	-----
5240 glass & glass prod.	0	0	0	-----		-----	-----
5290 misc. mineral prod.	0	0	0	-----		-----	-----
<b>Subtotal primary iron and steel products</b>	0	0	0	-----		-----	-----
5360 i&s bars & shapes	0	0	0	-----		-----	-----
5370 i&s pipe & tube	0	0	0	-----		-----	-----
5390 primary i&s nec	0	0	0	-----		-----	-----
<b>Subtotal primary non-ferrous metal products</b>	0	0	0	-----		-----	-----
5421 copper	0	0	0	-----		-----	-----
5422 aluminum	0	0	0	-----		-----	-----
5480 fab. metal products	0	0	0	-----		-----	-----
<b>Total food and farm products</b>	0	0	0	-----		-----	-----
<b>Subtotal vegetable products</b>	0	0	0	-----		-----	-----
6654 vegetables & prod.	0	0	0	-----		-----	-----
<b>Subtotal processed grain and animal feed</b>	0	0	0	-----		-----	-----
6747 grain mill products	0	0	0	-----		-----	-----
<b>Subtotal other agricultural products</b>	0	0	0	-----		-----	-----
6839 animals & prod. nec	0	0	0	-----		-----	-----
6872 cocoa beans	0	0	0	-----		-----	-----
6885 alcoholic beverages	0	0	0	-----		-----	-----
<b>Total all manufactured equipment, machinery and products</b>	1	1	0	-----		-----	-----
7110 machinery (not elec)	0	0	0	-----		-----	-----
7120 electrical machinery	0	0	0	-----		-----	-----
7210 vehicles & parts	0	0	0	-----		-----	-----
7500 textile products	0	0	0	-----		-----	-----
7600 rubber & plastic pr.	0	0	0	-----		-----	-----
7900 manufac. prod. nec	0	0	0	-----		-----	-----
<b>Total unknown or not elsewhere classified</b>	0	0	0	-----		-----	-----
9900 unknown or nec	0	0	0	-----		-----	-----

## MARQUETTE HARBOR, MI

Section Included: Entire harbor. Controlling Depth: 26 feet. Project Depth: 27 feet. Navigation Season: May 14 to November 22.

**Comparative Statement of Traffic  
(thousand tons)**

Year	Total	Year	Total
1981	68	1986	357
1982	176	1987	617
1983	254	1988	729
1984	180	1989	770
1985	178	1990	626

**Freight Traffic, 1990  
(thousand tons)**

Commodity	Grand Total	Lakewise Receipts
<b>Total, all commodities</b>	<b>626</b>	<b>626</b>
<b>Total coal</b>	<b>163</b>	<b>163</b>
1100 coal lignite	163	163
<b>Total crude materials, Inedible except fuels</b>	<b>464</b>	<b>464</b>
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>464</b>	<b>464</b>
4322 limestone	464	464

## DRUMMOND ISLAND, MI (INCLUDE IN ST. MARYS RIVER)

Section Included: Private loading dock on St. Marys River at Drummond Island, MI. Controlling Depths: 30 feet to and from Lake Huron; 27.0 feet to and from Lake Superior; 27.0 feet to Lake Superior; 23 feet at dock. Project Depth: See St. Marys River.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	1,479	1986	1,301
1982	815	1987	1,516
1983	1,130	1988	535
1984	1,091	1989	820
1985	1,187	1990	758

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Lakewise Shipments
<b>Total, all commodities</b>	<b>758</b>	<b>758</b>
<b>Total crude materials, inedible except fuels</b>	<b>758</b>	<b>758</b>
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>758</b>	<b>758</b>
4322 limestone	758	758

## ST. MARYS RIVER, MI

Section Included: Entire length of St. Marys River from Lake Superior to Lake Huron, including American ports of Sault Ste. Marie, Raber, Lime Island, Drummond Island, and Detour, Michigan.

Name of Canal	Project Depth	Controlling Depth
Gros Cap Reefs	30.0 . . . . .	30.0
Point Iroquois Shoal Channel	30.0 . . . . .	29.4
Point Iroquois Anchorage areas	29.0 . . . . .	21.0
Birch Point Course	28.0-30.0 . . .	30.0
Brush Point Course	28.0-30.0	
Point Louise Channel	28.0 . . . . .	28.0
Point Aux Pins Course	28.0 . . . . .	28.0
Vidal Shoals Channel	28.0 . . . . .	28.0

## Locks and Canal (see report for St. Marys Fall Canal)

Bayfield Channel Course 1	28.0 . . . . .	28.0
Anchorage and maneuver area angle courses 1 and 2	28.5 . . . . .	28.5
Little Rapids Courses 2 and 3	27.0 . . . . .	27.0
Lake Nicolet Channel	29.0 . . . . .	29.0
Lake Nicolet Anchorage	28.0 . . . . .	28.0
Middle Neebish Channel	27.0-28.0 . . .	27.0
West Neebish Channel	27.5-28.5 . . .	27.5
Lake Munuscong Channel	28.0 . . . . .	28.0
Lime Island Channel	29.0 . . . . .	29.0
Detour Passage	30.0 . . . . .	29.0
Pipe Island Course	29.0 . . . . .	29.0
Watson Reef Course	30.0 . . . . .	30.0
Crab Island	30.0 . . . . .	30.0

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	76,378	1986	51,033
1982	43,463	1987	61,475
1983	52,527	1988	72,443
1984	60,325	1989	73,469
1985	57,081	1990	69,392

Freight Traffic, 1990  
(thousand tons)

Commodity	Total	Foreign			Canadian		
		Imports	Through Upbound	Downbnd	Imports	Through Upbound	Downbnd
<b>Total, all commodities</b>	<b>5,625</b>	<b>1</b>	<b>49</b>	<b>1,622</b>	<b>21</b>	<b>406</b>	<b>3,526</b>
<b>Total coal</b>	<b>304</b>	-----	-----	-----	-----	-----	<b>304</b>
1100 coal lignite	304	-----	-----	-----	-----	-----	304

**ST. MARYS RIVER, MI**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) | | | | | |

Commodity	Total	Foreign			Canadian		
		Imports	Through Upbound	Downbnd	Imports	Through Upbound	Downbnd
<b>Total petroleum and petroleum products</b>	163	-----	109	-----	50	5	
<b>Subtotal petroleum products</b>	163	-----	109	-----	50	5	
2211 gasoline	8	-----	-----	-----	8	-----	
2330 distillate fuel oil	16	-----	3	-----	8	5	
2340 residual fuel oil	33	-----	-----	-----	33	-----	
2350 lube oil & greases	0	-----	0	-----	-----	0	
2540 petroleum coke	106	-----	106	-----	-----	-----	
<b>Total chemicals and related products</b>	875	0	0	1	1	873	
<b>Subtotal fertilizers</b>	872	-----	-----	-----	-----	-----	872
3110 nitrogenous fert.	70	-----	-----	-----	-----	70	
3130 potassic fert.	802	-----	-----	-----	-----	802	
3190 fert. & mixes nec	0	-----	-----	-----	-----	0	
<b>Subtotal other chemicals and related products</b>	3	0	0	1	1	2	
3220 alcohols	0	-----	0	-----	-----	-----	
3230 carboxylic acids	0	0	0	-----	-----	-----	
3260 organic comp. nec	0	-----	-----	0	-----	-----	
3274 sodium hydroxide	0	-----	-----	0	-----	-----	
3275 inorg. elem.,oxides, & halogen salts	2	-----	0	-----	-----	2	
3276 metallic salts	0	-----	0	0	-----	-----	
3282 pigments & paints	0	-----	0	-----	-----	-----	
3284 medicines	0	-----	0	-----	-----	-----	
3285 perfumes & cleansers	0	-----	0	-----	-----	-----	
3286 plastics	1	-----	0	0	-----	-----	
3298 wood & resin chem.	1	-----	-----	-----	1	-----	
<b>Total crude materials, Inedible except fuels</b>	700	1	-----	3	21	258	417
<b>Subtotal forest products, wood and chips</b>	0	-----	-----	-----	-----	-----	0
4170 wood in the rough	0	-----	-----	-----	-----	-----	0
4189 lumber	0	-----	-----	-----	-----	-----	0
<b>Subtotal pulp and waste paper</b>	0	-----	-----	-----	-----	-----	0
4225 pulp & waste paper	0	-----	-----	-----	-----	-----	0
<b>Subtotal soil, sand, gravel, rock and stone</b>	29	-----	-----	-----	29	-----	
4331 sand & gravel	29	-----	-----	-----	29	-----	
<b>Subtotal iron ore and scrap</b>	365	-----	-----	-----	-----	-----	365
4410 iron ore	361	-----	-----	-----	-----	-----	361
4420 iron & steel scrap	5	-----	-----	-----	-----	-----	5
<b>Subtotal sulphur, clay and salt</b>	3	-----	-----	3	-----	-----	
4782 clay & refrac. mat.	3	-----	-----	3	-----	-----	
<b>Subtotal slag</b>	1	1	-----	-----	-----	-----	
4860 slag	1	1	-----	-----	-----	-----	
<b>Subtotal other non-metal. min.</b>	301	-----	-----	-----	21	229	51
4900 non-metal. min. nec	301	-----	-----	-----	21	229	51

**ST. MARYS RIVER, MI**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) | | | | | |

Commodity	Total	Foreign			Canadian		
		Imports	Through Upbound	Downbnd	Imports	Through Upbound	Downbnd
<b>Total primary manufactured goods</b>	144	-----	46	0	-----	98	0
<b>Subtotal paper products</b>	0	-----	0	-----	-----	-----	0
5120 paper & paperboard	0	-----	0	-----	-----	-----	0
<b>Subtotal lime, cement and glass</b>	98	-----	0	-----	-----	98	0
5220 cement & concrete	98	-----	-----	-----	-----	98	-----
5240 glass & glass prod.	0	-----	0	-----	-----	0	-----
5290 misc. mineral prod.	0	-----	0	-----	-----	-----	0
<b>Subtotal primary iron and steel products</b>	45	-----	45	-----	-----	-----	-----
5330 i&s plates & sheets	45	-----	45	-----	-----	-----	-----
5360 i&s bars & shapes	0	-----	0	-----	-----	-----	-----
5370 i&s pipe & tube	0	-----	0	-----	-----	-----	-----
5390 primary i&s nec	0	-----	0	-----	-----	-----	-----
<b>Subtotal primary non-ferrous metal products</b>	0	-----	0	0	-----	-----	0
5421 copper	0	-----	0	-----	-----	-----	-----
5422 aluminum	0	-----	0	-----	-----	-----	0
5480 fab. metal products	0	-----	0	0	-----	-----	0
<b>Subtotal primary wood products</b>	0	-----	-----	-----	-----	-----	0
5540 primary wood prod.	0	-----	-----	-----	-----	-----	0
<b>Total food and farm products</b>	3,436	-----	0	1,509	-----	1	1,926
<b>Subtotal grain</b>	3,259	-----	-----	1,334	-----	-----	1,926
6241 wheat	1,807	-----	-----	951	-----	-----	856
6344 corn	190	-----	-----	117	-----	-----	73
6443 barley & rye	1,218	-----	-----	265	-----	-----	952
6445 oats	45	-----	-----	-----	-----	-----	45
<b>Subtotal oilseeds</b>	118	-----	-----	118	-----	-----	-----
6522 soybeans	118	-----	-----	118	-----	-----	-----
<b>Subtotal vegetable products</b>	26	-----	0	26	-----	-----	-----
6654 vegetables & prod.	26	-----	0	26	-----	-----	-----
<b>Subtotal processed grain and animal feed</b>	7	-----	0	6	-----	-----	-----
6747 grain mill products	0	-----	0	-----	-----	-----	-----
6782 animal feed, prep.	6	-----	-----	6	-----	-----	-----
<b>Subtotal other agricultural products</b>	27	-----	0	25	-----	1	0
6839 animals & prod. nec	0	-----	0	-----	-----	-----	-----
6857 fruit & nuts nec	0	-----	-----	0	-----	-----	0
6858 fruit juices	0	-----	-----	0	-----	-----	0
6871 coffee	0	-----	0	-----	-----	-----	-----
6872 cocoa beans	0	-----	0	-----	-----	-----	-----
6885 alcoholic beverages	0	-----	0	-----	-----	-----	0
6889 food products nec	1	-----	-----	-----	-----	1	0
6899 farm products nec	25	-----	-----	25	-----	-----	-----
<b>Total all manufactured equipment, machinery and products</b>	3	-----	3	0	-----	0	0
7110 machinery (not elec)	1	-----	1	0	-----	-----	0
7120 electrical machinery	0	-----	0	0	-----	-----	0

**ST. MARYS RIVER, MI**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) | | | | | |

Commodity	Total	Foreign			Canadian		
		Imports	Through Upbound	Downbnd	Imports	Through Upbound	Downbnd
7210 vehicles & parts	0	-----	0	0	-----	-----	-----
7230 ships & boats	0	-----	-----	0	-----	-----	0
7500 textile products	2	-----	2	-----	-----	-----	-----
7600 rubber & plastic pr.	0	-----	0	-----	-----	-----	-----
7900 manufac. prod. nec	0	-----	0	0	-----	0	-----
<b>Total unknown or not elsewhere classified</b>	<b>0</b>	<b>-----</b>	<b>0</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
9900 unknown or nec	0	-----	0	0	-----	-----	-----
<b>Ton-miles (x1000) Foreign &amp; Canadian</b>	<b>351,938</b>		<b>3,082</b>		<b>949</b>		<b>220,705</b>
		<b>69</b>		<b>102,195</b>		<b>24,938</b>	

Commodity	Total	Lakewise			
		Receipts	Shipments	Through Upbound	Downbnd
<b>Total, all commodities</b>	<b>63,766</b>	<b>7</b>	<b>758</b>	<b>4,404</b>	<b>58,597</b>
<b>Total coal</b>	<b>11,745</b>	-----	-----	<b>1,071</b>	<b>10,674</b>
1100 coal lignite	11,745	-----	-----	<b>1,071</b>	<b>10,674</b>
<b>Total petroleum and petroleum products</b>	<b>49</b>	-----	-----	<b>30</b>	<b>19</b>
<b>Subtotal petroleum products</b>	<b>49</b>	-----	-----	<b>30</b>	<b>19</b>
2211 gasoline	49	-----	-----	30	19
2330 distillate fuel oil	39	-----	-----	21	18
11	11	-----	-----	9	1
<b>Total chemicals and related products</b>	<b>16</b>	-----	-----	<b>16</b>	-----
<b>Subtotal other chemicals and related products</b>	<b>16</b>	-----	-----	<b>16</b>	-----
3276 metallic salts	16	-----	-----	16	-----
<b>Total crude materials, Inedible except fuels</b>	<b>50,863</b>	<b>7</b>	<b>758</b>	<b>3,103</b>	<b>46,995</b>
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>4,027</b>	-----	<b>758</b>	<b>3,050</b>	<b>219</b>
4322 limestone	4,014	-----	758	3,038	219
4331 sand & gravel	13	-----	-----	13	-----
<b>Subtotal iron ore and scrap</b>	<b>46,749</b>	-----	-----	<b>46,749</b>	-----
4410 iron ore	46,749	-----	-----	46,749	-----
<b>Subtotal slag</b>	<b>27</b>	-----	-----	<b>27</b>	-----
4860 slag	27	-----	-----	27	-----
<b>Subtotal other non-metal. min.</b>	<b>60</b>	<b>7</b>	-----	<b>53</b>	-----
4900 non-metal. min. nec	60	7	-----	53	-----
<b>Total primary manufactured goods</b>	<b>184</b>	-----	-----	<b>184</b>	-----
<b>Subtotal lime, cement and glass</b>	<b>184</b>	-----	-----	<b>184</b>	-----
5220 cement & concrete	184	-----	-----	184	-----

**ST. MARYS RIVER, MI**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) |

Commodity	Total	Lakewise			
		Receipts	Shipments	Through	Upbound Downbnd
<b>Total food and farm products</b>	<b>909</b>	-----	-----	-----	<b>909</b>
<b>Subtotal grain</b>	<b>909</b>	-----	-----	-----	<b>909</b>
6241 wheat	909	-----	-----	-----	909
 Ton-miles (x1000) Lakewise	 <b>3,981,539</b>	 322	 <b>12,126</b>	 <b>277,461</b>	 <b>3,691,630</b>
 Tons All Traffic (x1000) Ton-miles All Traffic (x1000)	 <b>69,392</b>				
	 <b>4,333,498</b>				

**ST. MARYS FALLS CANAL, MI AND SAULT STE. MARIE, ONTARIO SHIP CANAL, CN (INCLUDED IN  
ST. MARYS RIVER)**

Section Included: American and Canadian Navigation Canals and Locks at St. Marys Falls, Sault Ste. Marie, MI. and Ontario. Controlling Depths: Sabin Lock 23.1, Davis Lock 23.1, Macarthur Lock 31.0, Poe Lock 32.0 and 16.8 feet Canadian Canal. Project Depth: See St. Marys River.

**Comparative Statement of Traffic  
(thousand tons)**

Year	Total	Year	Total
1981	77,023	1986	51,408
1982	43,825	1987	62,460
1983	52,792	1988	74,054
1984	61,117	1989	75,143
1985	58,075	1990	<b>68,514</b>

**Freight Traffic, 1990  
(thousand tons)**

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Through		Through		Total	Lakewise	
		Upbound	Downbnd	Upbound	Downbnd	Through	Upbound	Downbnd
<b>Total, all commodities</b>	<b>68,514</b>	<b>49</b>	<b>1,622</b>	<b>377</b>	<b>3,464</b>	<b>63,001</b>	<b>4,404</b>	<b>58,597</b>
<b>Total coal</b>	<b>12,049</b>	-----	-----	-----	<b>304</b>	<b>11,745</b>	<b>1,071</b>	<b>10,674</b>
1100 coal lignite	12,049	-----	-----	-----	<b>304</b>	<b>11,745</b>	<b>1,071</b>	<b>10,674</b>
<b>Total petroleum and petroleum products</b>	<b>208</b>	-----	<b>109</b>	<b>50</b>	-----	<b>49</b>	<b>30</b>	<b>19</b>
<b>Subtotal petroleum products</b>	<b>208</b>	-----	<b>109</b>	<b>50</b>	-----	<b>49</b>	<b>30</b>	<b>19</b>
2211 gasoline	46	-----	-----	8	-----	39	21	18
2330 distillate fuel oil	22	-----	3	8	-----	11	9	1
2340 residual fuel oil	33	-----	-----	33	-----	-----	-----	-----
2350 lube oil & greases	0	-----	0	-----	-----	-----	-----	-----

ST. MARYS FALLS CANAL, MI AND SAULT STE. MARIE, ONTARIO SHIP CANAL, CN (INCLUDED IN  
**ST. MARYS RIVER)**  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic	
		Through		Through		Total	Lakewise
		Upbound	Downbnd	Upbound	Downbnd	Through	Upbound Downbnd
2540 petroleum coke	106	-----	106	-----	-----	-----	-----
<b>Total chemicals and related products</b>	<b>891</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>873</b>	<b>16</b>	<b>16</b> -----
<b>Subtotal fertilizers</b>	<b>872</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>872</b>	<b>-----</b>	<b>-----</b>
3110 nitrogenous fert.	70	-----	-----	-----	70	-----	-----
3130 potassic fert.	802	-----	-----	-----	802	-----	-----
3190 fert. & mixes nec	0	-----	-----	-----	0	-----	-----
<b>Subtotal other chemicals and related products</b>	<b>20</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>16</b>	<b>16</b> -----
3220 alcohols	0	0	-----	-----	-----	-----	-----
3230 carboxylic acids	0	0	-----	-----	-----	-----	-----
3260 organic comp. nec	0	-----	0	-----	-----	-----	-----
3274 sodium hydroxide	0	-----	0	-----	-----	-----	-----
3275 inorg. elem., oxides, & halogen salts	2	0	-----	-----	2	-----	-----
3276 metallic salts	17	0	0	-----	-----	16	16 -----
3282 pigments & paints	0	0	-----	-----	-----	-----	-----
3284 medicines	0	0	-----	-----	-----	-----	-----
3285 perfumes & cleansers	0	0	0	-----	-----	-----	-----
3286 plastics	1	0	0	-----	-----	-----	-----
3298 wood & resin chem.	1	-----	-----	1	-----	-----	-----
<b>Total crude materials, inedible except fuels</b>	<b>50,691</b>	<b>-----</b>	<b>3</b>	<b>229</b>	<b>361</b>	<b>50,098</b>	<b>3,103</b> <b>46,995</b>
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>3,269</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>3,269</b>	<b>3,050</b> <b>219</b>
4322 limestone	3,256	-----	-----	-----	-----	3,256	3,038 <b>219</b>
4331 sand & gravel	13	-----	-----	-----	-----	13	13 -----
<b>Subtotal iron ore and scrap</b>	<b>47,110</b>	<b>-----</b>	<b>-----</b>	<b>361</b>	<b>46,749</b>	<b>46,749</b>	<b>46,749</b>
4410 iron ore	47,110	-----	-----	361	46,749	46,749	46,749
<b>Subtotal sulphur, clay and salt</b>	<b>3</b>	<b>-----</b>	<b>3</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
4782 clay & refrac. mat.	3	-----	3	-----	-----	-----	-----
<b>Subtotal slag</b>	<b>27</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>27</b>	<b>27</b>
4860 slag	27	-----	-----	-----	-----	27	27
<b>Subtotal other non-metal. min.</b>	<b>282</b>	<b>-----</b>	<b>-----</b>	<b>229</b>	<b>-----</b>	<b>53</b>	<b>53</b> -----
4900 non-metal. min. nec	282	-----	-----	229	-----	53	53 -----
<b>Total primary manufactured goods</b>	<b>327</b>	<b>46</b>	<b>0</b>	<b>98</b>	<b>-----</b>	<b>184</b>	<b>184</b> -----
<b>Subtotal paper products</b>	<b>0</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
5120 paper & paperboard	0	0	-----	-----	-----	-----	-----
<b>Subtotal lime, cement and glass</b>	<b>281</b>	<b>0</b>	<b>-----</b>	<b>98</b>	<b>-----</b>	<b>184</b>	<b>184</b> -----
5220 cement & concrete	281	-----	-----	98	-----	184	184 -----
5240 glass & glass prod.	0	0	-----	0	-----	184	184 -----

ST. MARYS FALLS CANAL, MI AND SAULT STE. MARIE, ONTARIO SHIP CANAL, CN (INCLUDED IN  
**ST. MARYS RIVER)**  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic	
		Through		Through		Total	Lakewise
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
5290 misc. mineral prod.	0	0	-----	-----	-----	-----	-----
<b>Subtotal primary Iron and steel products</b>	<b>45</b>	<b>45</b>	-----	-----	-----	-----	-----
5330 i&s plates & sheets	45	45	-----	-----	-----	-----	-----
5360 i&s bars & shapes	0	0	-----	-----	-----	-----	-----
5370 i&s pipe & tube	0	0	-----	-----	-----	-----	-----
5390 primary i&s nec	0	0	-----	-----	-----	-----	-----
<b>Subtotal primary non-ferrous metal products</b>	<b>0</b>	<b>0</b>	<b>0</b>	-----	-----	-----	-----
5421 copper	0	0	-----	-----	-----	-----	-----
5422 aluminum	0	0	-----	-----	-----	-----	-----
5480 fab. metal products	0	0	0	-----	-----	-----	-----
<b>Total food and farm products</b>	<b>4,345</b>	<b>0</b>	<b>1,509</b>	<b>1</b>	<b>1,926</b>	<b>909</b>	<b>909</b>
<b>Subtotal grain</b>	<b>4,169</b>	-----	<b>1,334</b>	-----	<b>1,926</b>	<b>909</b>	<b>909</b>
6241 wheat	2,716	-----	951	-----	856	909	909
6344 corn	190	-----	117	-----	73	-----	-----
6443 barley & rye	1,218	-----	265	-----	952	-----	-----
6445 oats	45	-----	-----	45	-----	-----	-----
<b>Subtotal oilseeds</b>	<b>118</b>	-----	<b>118</b>	-----	-----	-----	-----
6522 soybeans	118	-----	118	-----	-----	-----	-----
<b>Subtotal vegetable products</b>	<b>26</b>	<b>0</b>	<b>26</b>	-----	-----	-----	-----
6654 vegetables & prod.	26	0	26	-----	-----	-----	-----
<b>Subtotal processed grain and animal feed</b>	<b>7</b>	<b>0</b>	<b>6</b>	-----	-----	-----	-----
6747 grain mill products	0	0	-----	-----	-----	-----	-----
6782 animal feed, prep.	6	-----	6	-----	-----	-----	-----
<b>Subtotal other agricultural products</b>	<b>26</b>	<b>0</b>	<b>25</b>	<b>1</b>	-----	-----	-----
6839 animals & prod. nec	0	0	-----	-----	-----	-----	-----
6857 fruit & nuts nec	0	-----	0	-----	-----	-----	-----
6858 fruit juices	0	-----	0	-----	-----	-----	-----
6871 coffee	0	0	-----	-----	-----	-----	-----
6872 cocoa beans	0	0	-----	-----	-----	-----	-----
6885 alcoholic beverages	0	0	-----	-----	-----	-----	-----
6889 food products nec	1	-----	-----	1	-----	-----	-----
6899 farm products nec	25	-----	25	-----	-----	-----	-----
<b>Total all manufactured equipment, machinery and products</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>0</b>	-----	-----	-----
7110 machinery (not elec)	1	1	0	-----	-----	-----	-----
7120 electrical machinery	0	0	0	-----	-----	-----	-----
7210 vehicles & parts	0	0	0	-----	-----	-----	-----
7230 ships & boats	0	-----	0	-----	-----	-----	-----
7500 textile products	2	2	-----	-----	-----	-----	-----
7600 rubber & plastic pr.	0	0	-----	-----	-----	-----	-----
7900 manufac. prod. nec	0	0	0	0	-----	-----	-----

ST. MARYS FALLS CANAL, MI AND SAULT STE. MARIE, ONTARIO SHIP CANAL, CN (INCLUDED IN  
 ST. MARYS RIVER)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic	
		Through		Through		Total	Lakewise
		Upbound	Downbnd	Upbound	Downbnd	Through	Upbound
Total unknown or not elsewhere classified	0	0	0	-----	-----	-----	-----
9900 unknown or nec	0	0	0	-----	-----	-----	-----
Ton-miles (x1000)	4,316,373	3,082	102,195	23,776	218,230	3,969,090	277,461
Tons All Traffic (x1000)			68,514				
Ton-miles All Traffic (x1000)			4,316,373				

## GRAYS REEF PASSAGE, MI

Section Included: East channel, 3,000 feet wide and about 2 miles long. Controlling and project depths: 25 feet.

Comparative Statement of Traffic  
 (thousand tons)

Year	Total	Year	Total
1981	5,195	1986	3,980
1982	3,791	1987	3,464
1983	3,732	1988	3,713
1984	4,712	1989	4,569
1985	4,601	1990	8,214

Freight Traffic, 1990  
 (thousand tons)

Commodity	Grand Total	Domestic			
		Lakewise		Internal	
		Through	Upbound	Through	Upbound
Total, all commodities	8,214	1,722	6,489	1	2
Total coal	3,111	52	3,059	-----	-----
1100 coal lignite	3,111	52	3,059	-----	-----
Total petroleum and petroleum products	658	599	57	-----	2
Subtotal petroleum products	658	599	57	-----	2
2211 gasoline	231	219	12	-----	-----
2330 distillate fuel oil	128	84	44	-----	-----
2340 residual fuel oil	13	11	-----	-----	2
2430 asphalt, tar & pitch	191	191	-----	-----	-----
2540 petroleum coke	94	94	-----	-----	-----

**GRAYS REEF PASSAGE, MI**  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Grand Total	Domestic			
		Lakewise		Internal	
		Through	Upbound	Through	Upbound
<b>Total chemicals and related products</b>	<b>119</b>	<b>119</b>	-----	-----	-----
<b>Subtotal other chemicals and related products</b>	<b>119</b>	<b>119</b>	-----	-----	-----
3276 metallic salts	119	119	-----	-----	-----
<b>Total crude materials, Inedible except fuels</b>	<b>2,792</b>	<b>429</b>	<b>2,363</b>	-----	-----
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>2,195</b>	<b>404</b>	<b>1,791</b>	-----	-----
4322 limestone	1,417	-----	1,417	-----	-----
4323 gypsum	358	-----	358	-----	-----
4331 sand & gravel	421	404	17	-----	-----
<b>Subtotal iron ore and scrap</b>	<b>243</b>	-----	<b>243</b>	-----	-----
4410 iron ore	243	-----	243	-----	-----
<b>Subtotal sulphur, clay and salt</b>	<b>26</b>	-----	<b>26</b>	-----	-----
4782 clay & refrac. mat.	26	-----	26	-----	-----
<b>Subtotal slag</b>	<b>25</b>	<b>25</b>	-----	-----	-----
4860 slag	25	25	-----	-----	-----
<b>Subtotal other non-metal. min.</b>	<b>304</b>	-----	<b>304</b>	-----	-----
4900 non-metal. min. nec	304	-----	304	-----	-----
<b>Total primary manufactured goods</b>	<b>1,532</b>	<b>523</b>	<b>1,010</b>	-----	-----
<b>Subtotal lime, cement and glass</b>	<b>1,532</b>	<b>523</b>	<b>1,010</b>	-----	-----
5220 cement & concrete	1,532	523	1,010	-----	-----
<b>Total all manufactured equipment, machinery and products</b>	<b>1</b>	<b>0</b>	-----	<b>1</b>	-----
7110 machinery (not elec)	1	0	-----	1	-----
<b>Ton-miles (x1000)</b>	<b>763,565</b>		<b>575,402</b>	<b>339</b>	<b>596</b>
		187,228			
<b>Tons All Traffic (x1000)</b>		<b>8,214</b>			
<b>Ton-miles All Traffic (x1000)</b>		<b>763,565</b>			

## CHARLEVOIX HARBOR, MI

Section Included: Entrance channel and entire area of Round Lake and Lake Charlevoix, including advance, Boyne City and East Jordan. Controlling Depth: 18 feet. Project Depth: 23 feet.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	114	1986	59
1982	163	1987	127
1983	100	1988	118
1984	103	1989	1,456
1985	126	1990	1,508

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Lakewise	
		Receipts	Shipments
<b>Total, all commodities</b>	<b>1,508</b>	<b>298</b>	<b>1,209</b>
<b>Total coal</b>	<b>277</b>	<b>277</b>	-----
1100 coal lignite	277	277	-----
<b>Total crude materials, inedible except fuels</b>	<b>20</b>	<b>20</b>	-----
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>20</b>	<b>20</b>	-----
4322 limestone	20	20	-----
<b>Total primary manufactured goods</b>	<b>1,207</b>	-----	<b>1,207</b>
<b>Subtotal lime, cement and glass</b>	<b>1,207</b>	-----	<b>1,207</b>
5220 cement & concrete	1,207	-----	1,207
<b>Total all manufactured equipment, machinery and products</b>	<b>3</b>	<b>1</b>	<b>2</b>
7110 machinery (not elec)	0	0	-----
7900 manufac. prod. nec	3	1	2
<b>Total unknown or not elsewhere classified</b>	<b>1</b>	<b>1</b>	<b>1</b>
9900 unknown or nec	1	1	1

## MANISTEE HARBOR, MI

Section Included: Entrance channel and entire area of Manistee Lake, including Filer City. Controlling Depths: 24 feet over the entrance bar, through the outer basin and in the channel between the piers; thence 23 feet in the river channel, narrowing to a minimum width of about 100 to 140 feet to Manistee Lake. Project Depths: 25 feet in the outer basin and 23 feet in the river to Manistee Lake. Navigation season: March 30 to December 31.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	132	1986	285
1982	215	1987	241
1983	225	1988	245
1984	263	1989	325
1985	263	1990	535

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Canadian Imports	Domestic Lakewise Receipts
<b>Total, all commodities</b>	<b>535</b>	<b>51</b>	<b>484</b>
<b>Total coal</b>	<b>415</b>	-----	<b>415</b>
1100 coal lignite	415	-----	415
<b>Total crude materials, inedible except fuels</b>	<b>120</b>	<b>51</b>	<b>69</b>
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>72</b>	<b>15</b>	<b>57</b>
4322 limestone	57	-----	57
4331 sand & gravel	15	15	-----
<b>Subtotal slag</b>	<b>12</b>	-----	<b>12</b>
4860 slag	12	-----	12
<b>Subtotal other non-metal. min.</b>	<b>36</b>	<b>36</b>	-----
4900 non-metal. min. nec	36	36	-----

## LUDINGTON HARBOR, MI

Section Included: Entrance channel and entire area of Pere Marquette Lake. Controlling Depths: 26 feet in the outer entrance bar and 27 feet in the channel to Pere Marquette Lake. Project Depths: Outer entrance channel, 30 feet; inner entrance channel, 29.5 feet; channel to Pere Marquette Lake, 29 feet; north and south mooring basins, 18 feet. Navigation season: April 2 to December 31.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	1,762	1986	721
1982	1,191	1987	894
1983	660	1988	1,152
1984	1,175	1989	1,179
1985	1,075	1990	1,291

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Domestic	
		Lakewise Shipments	Internal Shipments
<b>Total, all commodities</b>	<b>1,291</b>	<b>733</b>	<b>368</b>
<b>Total petroleum and petroleum products</b>	<b>5</b>	<b>5</b>	<b>-----</b>
<b>Subtotal petroleum products</b>	<b>5</b>	<b>5</b>	<b>-----</b>
2340 residual fuel oil	5	5	-----
<b>Total chemicals and related products</b>	<b>364</b>	<b>1</b>	<b>173</b>
<b>Subtotal fertilizers</b>	<b>2</b>	<b>-----</b>	<b>2</b>
3120 phosphatic fert.	2	-----	2
<b>Subtotal other chemicals and related products</b>	<b>362</b>	<b>1</b>	<b>171</b>
3275 inorg. elem., oxides, & halogen salts	15	0	14
3276 metallic salts	348	0	157
3298 wood & resin chem.	0	0	0
<b>Total crude materials, inedible except fuels</b>	<b>763</b>	<b>644</b>	<b>119</b>
<b>Subtotal forest products, wood and chips</b>	<b>25</b>	<b>25</b>	<b>-----</b>
4189 lumber	25	25	-----
<b>Subtotal pulp and waste paper</b>	<b>0</b>	<b>-----</b>	<b>0</b>
4225 pulp & waste paper	0	-----	0
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>658</b>	<b>549</b>	<b>109</b>
4310 building stone	0	0	-----
4322 limestone	545	545	-----
4331 sand & gravel	113	4	109
<b>Subtotal sulphur, clay and salt</b>	<b>45</b>	<b>35</b>	<b>10</b>
4782 clay & refrac. mat.	45	35	10
<b>Subtotal slag</b>	<b>35</b>	<b>35</b>	<b>-----</b>
4860 slag	35	35	-----
<b>Subtotal other non-metal. min.</b>	<b>1</b>	<b>-----</b>	<b>1</b>
4900 non-metal. min. nec	1	-----	1

**LUDINGTON HARBOR, MI**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) |

Commodity	Grand Total	Domestic		
		Lakewise Shipments		Internal Shipments
		Receipts	Shipments	Shipments
<b>Total primary manufactured goods</b>	<b>130</b>	<b>70</b>	<b>60</b>	-----
<b>Subtotal paper products</b>	<b>123</b>	<b>70</b>	<b>53</b>	-----
5120 paper & paperboard	68	68	-----	-----
5190 paper products nec	55	2	53	-----
<b>Subtotal lime, cement and glass</b>	<b>7</b>	<b>0</b>	<b>7</b>	-----
5220 cement & concrete	7	0	7	-----
<b>Subtotal primary iron and steel products</b>	<b>0</b>	-----	<b>0</b>	-----
5390 primary i&s nec	0	-----	0	-----
<b>Total food and farm products</b>	<b>10</b>	<b>9</b>	<b>0</b>	-----
<b>Subtotal vegetable products</b>	<b>4</b>	<b>4</b>	-----	-----
6654 vegetables & prod.	4	4	-----	-----
<b>Subtotal processed grain and animal feed</b>	<b>5</b>	<b>5</b>	-----	-----
6782 animal feed, prep.	5	5	-----	-----
<b>Subtotal other agricultural products</b>	<b>1</b>	<b>1</b>	<b>0</b>	-----
6811 meat, fresh, frozen	0	0	-----	-----
6865 molasses	0	0	-----	-----
6885 alcoholic beverages	0	-----	0	-----
<b>Total all manufactured equipment, machinery and products</b>	<b>19</b>	<b>4</b>	<b>15</b>	-----
7400 manufac. wood prod.	2	-----	2	-----
7600 rubber & plastic pr.	13	-----	13	-----
7900 manufac. prod. nec	4	4	-----	-----

## MUSKEGON HARBOR, MI

Section Included: Entrance channel and entire area of Muskegon Lake. Controlling Depths: 29.0 feet through the outer portion of project and 27 feet in channel to Muskegon Lake. Project Depth: Varying from 29.0 feet at harbor entrance to 28 feet between breakwaters and 27 feet in inner channel. Navigation season: April 7 to December 31.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	1,158	1986	1,193
1982	1,153	1987	1,202
1983	932	1988	1,544
1984	1,304	1989	1,877
1985	774	1990	1,802

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Canadian Imports	Domestic		
			Total	Lakewise Receipts	Internal Receipts
<b>Total, all commodities</b>	<b>1,802</b>	<b>50</b>	<b>1,752</b>	<b>1,738</b>	<b>14</b>
<b>Total coal</b>	<b>1,090</b>	-----	<b>1,090</b>	<b>1,090</b>	-----
1100 coal lignite	1,090	-----	1,090	1,090	-----
<b>Total petroleum and petroleum products</b>	<b>185</b>	-----	<b>185</b>	<b>185</b>	-----
<b>Subtotal petroleum products</b>	<b>185</b>	-----	<b>185</b>	<b>185</b>	-----
2211 gasoline	87	-----	87	87	-----
2330 distillate fuel oil	99	-----	99	99	-----
<b>Total chemicals and related products</b>	<b>14</b>	-----	<b>14</b>	-----	<b>14</b>
<b>Subtotal fertilizers</b>	<b>14</b>	-----	<b>14</b>	-----	<b>14</b>
3110 nitrogenous fert.	14	-----	14	-----	14
<b>Total crude materials, inedible except fuels</b>	<b>407</b>	<b>50</b>	<b>357</b>	<b>357</b>	-----
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>137</b>	<b>31</b>	<b>106</b>	<b>106</b>	-----
4322 limestone	106	-----	106	106	-----
4331 sand & gravel	31	31	-----	-----	-----
<b>Subtotal slag</b>	<b>225</b>	-----	<b>225</b>	<b>225</b>	-----
4860 slag	225	-----	225	225	-----
<b>Subtotal other non-metal. min.</b>	<b>46</b>	<b>19</b>	<b>26</b>	<b>26</b>	-----
4900 non-metal. min. nec	46	19	26	26	-----
<b>Total primary manufactured goods</b>	<b>106</b>	-----	<b>106</b>	<b>106</b>	-----
<b>Subtotal lime, cement and glass</b>	<b>106</b>	-----	<b>106</b>	<b>106</b>	-----
5220 cement & concrete	106	-----	106	106	-----

## GRAND HAVEN HARBOR AND GRAND RIVER, MI

**Section Included:** Entire harbor, including Ferrysburg and Spring Lake; and Grand River from Grand Trunk RY. Bridge at Ferrysburg to Bass River about 15 miles. Controlling Depths: 22 feet in entrance channel; 21 feet to the mouth of the south channel; 21 feet to the sag; 20 feet to Grand Trunk RY. Bridge at Ferrysburg; 18 feet in the Turning Basin; 17 feet in channel to Spring Lake; thence 8 feet to mile 17.0 and 5 feet to the end of the project. Project Depths: 23 feet in entrance channel; 21 feet to Ferrysburg; 18 feet in channel to Spring Lake; 8 feet to mouth of Bass River. Navigation season: March 1 to December 31.

**Comparative Statement of Traffic  
(thousand tons)**

Year	Total	Year	Total
1981	430	1986	1,377
1982	479	1987	1,388
1983	1,056	1988	1,424
1984	1,358	1989	1,333
1985	1,455	1990	1,052

**Freight Traffic, 1990  
(thousand tons)**

Commodity	Grand Total	Foreign	Canadian	Domestic		
		Imports	Imports	Total	Lakewise	Shipments
				Receipts	Shipments	
<b>Total, all commodities</b>	<b>1,052</b>	4	96	<b>952</b>	<b>644</b>	<b>308</b>
<b>Total coal</b>	<b>199</b>	-----	-----	<b>199</b>	<b>199</b>	-----
1100 coal lignite	199	-----	-----	199	199	-----
<b>Total petroleum and petroleum products</b>	<b>36</b>	-----	-----	<b>36</b>	<b>36</b>	-----
<b>Subtotal petroleum products</b>	<b>36</b>	-----	-----	<b>36</b>	<b>36</b>	-----
2211 gasoline	29	-----	-----	29	29	-----
2330 distillate fuel oil	7	-----	-----	7	7	-----
<b>Total chemicals and related products</b>	<b>42</b>	4	38	-----	-----	-----
<b>Subtotal fertilizers</b>	<b>42</b>	4	38	-----	-----	-----
3110 nitrogenous fert.	16	4	12	-----	-----	-----
3130 potassic fert.	26	-----	26	-----	-----	-----
<b>Total crude materials, inedible except fuels</b>	<b>655</b>	-----	58	<b>597</b>	<b>289</b>	<b>308</b>
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>446</b>	-----	22	<b>424</b>	<b>116</b>	<b>308</b>
4322 limestone	116	-----	-----	116	116	-----
4331 sand & gravel	330	-----	22	308	-----	308
<b>Subtotal slag</b>	<b>152</b>	-----	-----	<b>152</b>	<b>152</b>	-----
4860 slag	152	-----	-----	152	152	-----
<b>Subtotal other non-metal. min.</b>	<b>57</b>	-----	36	<b>21</b>	<b>21</b>	-----
4900 non-metal. min. nec	57	-----	36	21	21	-----

**GRAND HAVEN HARBOR AND GRAND RIVER, MI**  
**Freight Traffic, 1990 - continued**  
 (thousand tons)

Commodity	Grand Total	Foreign	Canadian	Domestic	
		Imports	Imports	Total	Lakewise
				Receipts	Shipments
<b>Total primary manufactured goods</b>	<b>121</b>	-----	-----	<b>121</b>	<b>121</b> -----
<b>Subtotal lime, cement and glass</b>	<b>121</b>	-----	-----	<b>121</b>	<b>121</b> -----
5220 cement & concrete	121	-----	-----	121	121 -----
 <b>Ton-miles (x1000)</b>	 <b>1,762</b>		 170	 1,583	 967
		9			617
 <b>Tons All Traffic (x1000)</b>	 <b>1,052</b>				
 <b>Ton-miles All Traffic (x1000)</b>	 <b>1,762</b>				

HOLLAND HARBOR, MI

Section Included: Controlling Depths: Entrance channel - 23 feet decreasing to 20 feet at the outer end of the inner pier; thence a controlling depth of 19 feet for a channel through Lake Macatawa to the wharves in Holland, Michigan, a Turning Basin 18 feet deep, a channel in Black River 21 feet deep and a settling basin with a project depth of 17 feet above the Black River channel to the State Street Bridge. Navigation season: March 13 to December 31.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	264	1986	420
1982	209	1987	314
1983	354	1988	313
1984	299	1989	361
1985	457	1990	391

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Foreign	Canadian	Domestic
		Exports	Imports	Lakewise Receipts
<b>Total, all commodities</b>	<b>391</b>	<b>10</b>	<b>30</b>	<b>351</b>
<b>Total coal</b>	<b>185</b>	-----	-----	<b>185</b>
1100 coal lignite	185	-----	-----	185
<b>Total crude materials, inedible except fuels</b>	<b>207</b>	<b>10</b>	<b>30</b>	<b>166</b>
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>101</b>	-----	-----	<b>101</b>
4322 limestone	101	-----	-----	101
<b>Subtotal iron ore and scrap</b>	<b>10</b>	<b>10</b>	-----	-----
4420 iron & steel scrap	10	10	-----	-----
<b>Subtotal slag</b>	<b>65</b>	-----	-----	<b>65</b>
4860 slag	65	-----	-----	65

**HOLLAND HARBOR, MI**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) |

Commodity	Grand Total	Foreign	Canadian	Domestic
		Exports	Imports	Lakewise Receipts
<b>Subtotal other non-metal. min.</b> 4900    non-metal. min. nec	30	-----	30	-----
	30	-----	30	-----

## ST. JOSEPH HARBOR, MI

Section Included: Entrance channel and lower portion of St. Joseph River to and including Benton Harbor Canal.  
 Controlling Depth: 24 feet at entrance; 21 feet between entrance piers and in the river to the mouth of the Paw Paw River; with miscellaneous of shoaling along the channel limits; 17 feet in the Turning Basin; and 16 feet at Benton Harbor Canal. Project Depths: 24 feet at entrance, and 21 feet in channel and river to the mouth of the Paw Paw River; 18 feet in Turning Basins and the Benton Harbor Canal. Navigation season: March 7 to December 31.

Comparative Statement of Traffic  
 (thousand tons)

Year	Total	Year	Total
1981	429	1986	433
1982	270	1987	492
1983	243	1988	463
1984	330	1989	386
1985	390	1990	445

Freight Traffic, 1990  
 (thousand tons)

Commodity	Grand Total	Canadian	Domestic
		Imports	Lakewise Receipts
<b>Total, all commodities</b>	445	1	444
<b>Total chemicals and related products</b>	1	1	-----
<b>Subtotal fertilizers</b> 3110    nitrogenous fert.	0	0	-----
<b>Subtotal other chemicals and related products</b> 3275    inorg. elem., oxides, & halogen salts	0	0	-----
<b>Total crude materials, inedible except fuels</b>	279	-----	279
<b>Subtotal soil, sand, gravel, rock and stone</b> 4322    limestone	247	-----	247
<b>Subtotal slag</b> 4860    slag	32	-----	32
<b>Total primary manufactured goods</b>	165	-----	165
<b>Subtotal lime, cement and glass</b> 5220    cement & concrete	165	-----	165
	165	-----	165

## MILWAUKEE HARBOR, WI

Section Included: Lake Approach Channel, outer harbor, Milwaukee River to Buffalo Street, lower 2 miles of Menomonee River, lower 2 miles of Kinnickinnic River and South Menomonee and Burnham Canals. Controlling and project depths: 30 feet in Lake Approach Channel, 28 feet in the entrance channel and the south outer harbor, 21 feet in the north outer harbor, 27 feet in the Kinnickinnic River to the Chicago and North Western Railway Bridge at mile 1.0, thence 21 feet to South Kinnickinnic Avenue Bridge; 27 feet in Milwaukee River to the Chicago and North Western Railway Bridge at mile 0.21, thence 21 feet to East Buffalo Street Bridge; 21 feet in Menomonee River and South Menomonee and Burham Canals.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	3,000	1986	1,823
1982	2,249	1987	2,161
1983	2,741	1988	2,289
1984	2,993	1989	2,379
1985	2,490	1990	2,128

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic Lakewise Receipts
		Imports	Exports	Imports	Exports	
<b>Total, all commodities</b>	<b>2,127</b>	<b>101</b>	<b>60</b>	<b>460</b>	<b>196</b>	<b>1,310</b>
<b>Total coal</b>	<b>452</b>	-----	-----	-----	-----	<b>452</b>
1100 coal lignite	452	-----	-----	-----	-----	452
<b>Total petroleum and petroleum products</b>	<b>214</b>	-----	-----	-----	-----	<b>214</b>
<b>Subtotal petroleum products</b>	<b>214</b>	-----	-----	-----	-----	<b>214</b>
2330 distillate fuel oil	0	-----	-----	-----	-----	0
2430 asphalt, tar & pitch	130	-----	-----	-----	-----	130
2540 petroleum coke	83	-----	-----	-----	-----	83
<b>Total chemicals and related products</b>	<b>0</b>	-----	<b>0</b>	-----	-----	-----
<b>Subtotal other chemicals and related products</b>	<b>0</b>	-----	<b>0</b>	-----	-----	-----
3286 plastics	0	-----	0	-----	-----	-----
<b>Total crude materials, inedible except fuels</b>	<b>653</b>	-----	<b>4</b>	<b>419</b>	-----	<b>230</b>
<b>Subtotal forest products, wood and chips</b>	<b>0</b>	-----	<b>0</b>	-----	-----	-----
4189 lumber	0	-----	0	-----	-----	-----
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>108</b>	-----	-----	-----	-----	<b>108</b>
4322 limestone	31	-----	-----	-----	-----	31
4331 sand & gravel	76	-----	-----	-----	-----	76
<b>Subtotal iron ore and scrap</b>	<b>4</b>	-----	<b>4</b>	-----	-----	-----
4420 iron & steel scrap	4	-----	4	-----	-----	-----
<b>Subtotal non-ferrous ores and scrap</b>	<b>0</b>	-----	<b>0</b>	-----	-----	-----
4680 non-ferrous scrap	0	-----	0	-----	-----	-----

**MILWAUKEE HARBOR, WI**  
**Freight Traffic, 1990 - continued**  
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic Lakewise Receipts
		Imports	Exports	Imports	Exports	
<b>Subtotal other non-metal. min.</b>	<b>541</b>	-----	-----	<b>419</b>	-----	<b>122</b>
4900 non-metal. min. nec	541	-----	-----	419	-----	122
<b>Total primary manufactured goods</b>	<b>551</b>	<b>99</b>	-----	<b>37</b>	<b>0</b>	<b>415</b>
<b>Subtotal lime, cement and glass</b>	<b>415</b>	-----	-----	-----	<b>0</b>	<b>415</b>
5220 cement & concrete	415	-----	-----	-----	-----	415
5290 misc. mineral prod.	0	-----	-----	-----	0	-----
<b>Subtotal primary iron and steel products</b>	<b>136</b>	<b>99</b>	-----	<b>37</b>	-----	-----
5312 pig iron	37	-----	-----	37	-----	-----
5320 i&s primary forms	6	6	-----	-----	-----	-----
5330 i&s plates & sheets	53	53	-----	-----	-----	-----
5360 i&s bars & shapes	40	40	-----	-----	-----	-----
5370 i&s pipe & tube	0	0	-----	-----	-----	-----
<b>Subtotal primary non-ferrous metal products</b>	<b>0</b>	<b>0</b>	-----	-----	-----	-----
5422 aluminum	0	0	-----	-----	-----	-----
5480 fab. metal products	0	0	-----	-----	-----	-----
<b>Subtotal primary wood products</b>	<b>0</b>	-----	-----	-----	<b>0</b>	-----
5540 primary wood prod.	0	-----	-----	-----	0	-----
<b>Total food and farm products</b>	<b>253</b>	<b>0</b>	<b>53</b>	<b>3</b>	<b>196</b>	-----
<b>Subtotal grain</b>	<b>253</b>	-----	<b>53</b>	<b>3</b>	<b>196</b>	-----
6344 corn	249	-----	53	3	196	-----
6443 barley & rye	3	-----	-----	3	-----	-----
<b>Subtotal vegetable products</b>	<b>0</b>	<b>0</b>	-----	-----	-----	-----
6654 vegetables & prod.	0	0	-----	-----	-----	-----
<b>Subtotal other agricultural products</b>	<b>0</b>	<b>0</b>	-----	-----	-----	-----
6885 alcoholic beverages	0	0	-----	-----	-----	-----
<b>Total all manufactured equipment, machinery and products</b>	<b>5</b>	<b>2</b>	<b>3</b>	-----	<b>0</b>	-----
7110 machinery (not elec)	5	2	3	-----	0	-----
7120 electrical machinery	0	0	0	-----	-----	-----
7210 vehicles & parts	0	0	0	-----	-----	-----
7600 rubber & plastic pr.	0	0	-----	-----	-----	-----
7900 manufac. prod. nec	0	-----	0	-----	-----	-----
<b>Total unknown or not elsewhere classified</b>	<b>0</b>	-----	<b>0</b>	-----	-----	-----
9900 unknown or nec	0	-----	0	-----	-----	-----

## GREEN BAY HARBOR, WI

Section Included: Outer channel, channel through the city of Green Bay and upper river channel to city of De Pere. Controlling and project depths: 26 feet in outer channel to Grassy Island; 24 feet in the entrance channel and river channel to a point 1,700 feet upstream from the C. & N. W. R. R. Bridge; 24 feet in the Turning Basin at the mouth of the East River; 20 feet in the Turning Basin above the C. & N. W. R. R. Bridge; 18 feet in the upper river channel and Turning Basin at the city of De Pere.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	1,980	1986	2,200
1982	2,031	1987	1,431
1983	2,441	1988	1,640
1984	2,423	1989	1,547
1985	2,296	1990	1,677

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Foreign		Canadian	Domestic
		Imports	Exports	Imports	Lakewise Receipts
<b>Total, all commodities</b>	<b>1,677</b>	<b>20</b>	<b>9</b>	<b>115</b>	<b>1,533</b>
<b>Total coal</b>	<b>972</b>	-----	-----	-----	<b>972</b>
1100 coal lignite	962	-----	-----	-----	962
1200 coal coke	10	-----	-----	-----	10
<b>Total petroleum and petroleum products</b>	<b>81</b>	-----	-----	-----	<b>81</b>
<b>Subtotal petroleum products</b>	<b>81</b>	-----	-----	-----	<b>81</b>
2430 asphalt, tar & pitch	68	-----	-----	-----	68
2540 petroleum coke	12	-----	-----	-----	12
<b>Total chemicals and related products</b>	<b>9</b>	-----	-----	<b>1</b>	<b>8</b>
<b>Subtotal other chemicals and related products</b>	<b>9</b>	-----	-----	<b>1</b>	<b>8</b>
3276 metallic salts	9	-----	-----	1	8
<b>Total crude materials, Inedible except fuels</b>	<b>393</b>	<b>20</b>	<b>1</b>	<b>115</b>	<b>257</b>
<b>Subtotal pulp and waste paper</b>	<b>21</b>	<b>20</b>	<b>1</b>	-----	-----
4225 pulp & waste paper	21	20	1	-----	-----
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>232</b>	-----	-----	-----	<b>232</b>
4322 limestone	232	-----	-----	-----	232
<b>Subtotal iron ore and scrap</b>	<b>2</b>	-----	-----	<b>2</b>	-----
4420 iron & steel scrap	2	-----	-----	2	-----
<b>Subtotal other non-metal. min.</b>	<b>138</b>	-----	-----	<b>113</b>	<b>25</b>
4900 non-metal. min. nec	138	-----	-----	113	25
<b>Total primary manufactured goods</b>	<b>215</b>	-----	<b>0</b>	-----	<b>215</b>
<b>Subtotal paper products</b>	<b>0</b>	-----	<b>0</b>	-----	-----
5190 paper products nec	0	-----	0	-----	-----

**GREEN BAY HARBOR, WI**  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian	Domestic
		Imports	Exports	Imports	Lakewise Receipts
<b>Subtotal lime, cement and glass</b>	<b>215</b>	-----	-----	-----	<b>215</b>
5220 cement & concrete	215	-----	-----	-----	215
<b>Total food and farm products</b>	<b>8</b>	-----	8	-----	-----
<b>Subtotal other agricultural products</b>	<b>8</b>	-----	8	-----	-----
6838 tallow, animal oils	8	-----	8	-----	-----

## ALPENA HARBOR, MI

Section Included: Lower 4,000 feet of river and private harbors north of mouth of Thunder Bay River. Controlling Depth: 21 feet in the bay section; 17 feet in river; 15 feet in Turning Basin. Project Depths: channel 21 feet deep from that depth in Thunder Bay to a point 2,500 feet lakeward of the lighthouse; thence 18.5 feet in river narrowing to 100-foot width at a point 700 feet upstream from the lighthouse; thence 100 feet wide and 18.5 feet deep to the Second Ave. Bridge; thence 18.5 feet deep and 75 feet wide to the upper limits of the project; a Turning Basin 15 feet deep by 3.7 acres at the upper end of project; and a Turning Basin 18.5 feet deep at the river mouth. Navigation season: March 15 to December 17.

Comparative Statement of Traffic  
 (thousand tons)

Year	Total	Year	Total
1981	2,171	1986	2,393
1982	1,821	1987	1,969
1983	2,178	1988	2,128
1984	2,423	1989	2,397
1985	2,382	1990	2,255

Freight Traffic, 1990  
 (thousand tons)

Commodity	Grand Total	Foreign		Domestic	
		Exports	Total	Lakewise	
			Receipts	Shipments	
<b>Total, all commodities</b>	<b>2,255</b>	3	<b>2,252</b>	<b>383</b>	<b>1,869</b>
<b>Total coal</b>	<b>294</b>	-----	<b>294</b>	<b>294</b>	-----
1100 coal lignite	294	-----	294	294	-----
<b>Total petroleum and petroleum products</b>	<b>88</b>	-----	<b>88</b>	<b>88</b>	-----
<b>Subtotal petroleum products</b>	<b>88</b>	-----	<b>88</b>	<b>88</b>	-----
2540 petroleum coke	88	-----	88	88	-----
<b>Total primary manufactured goods</b>	<b>1,869</b>	-----	<b>1,869</b>	-----	<b>1,869</b>
<b>Subtotal lime, cement and glass</b>	<b>1,869</b>	-----	<b>1,869</b>	-----	<b>1,869</b>
5220 cement & concrete	1,869	-----	1,869	-----	1,869

**ALPENA HARBOR, MI**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) |

Commodity	Grand Total	Foreign	Domestic	
		Total	Lakewise	
		Exports	Receipts	Shipments
<b>Total all manufactured equipment, machinery and products</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>0 -----</b>
7110 machinery (not elec)	3	3	0	0 -----

**SAGINAW RIVER, MI**

Section Included: From the mouth of the river up to and including Saginaw, Michigan. Controlling Depths: 27 feet from the 25 foot contour in Saginaw Bay to 26 feet at the river mouth, 4 feet misc. shoaling along channel limits; thence 24 feet to the Grand Trunk R.R. Bridge; thence 22 feet to the C&O R.R. Bridge in Saginaw, Michigan; thence 14 feet to the Holland Street Bridge; thence about 7 feet over a width of 100 feet upstream to Green Point (This Section not Maintained). Controlling depths in Turning Basins are: Essexville - 23 feet north side, 22 feet south side; Airport - 21 feet; Carrollton - 19 feet; Sixth Street - 20 feet; basin at 19 mile point - 15 feet. Project Depths: 27 feet from the deep water in Saginaw Bay to the river mouth; thence 26 feet for 0.4 mile; thence 25 feet to the Grand Trunk R.R. Bridge; thence 22 feet to the C&O R.R. Bridge in Saginaw; thence 16.5 feet to the upstream limits at Green Point. 20 and 25 feet in Essexville Turning Basin; 22 feet in the Airport turning basin; 20 feet in the Carrollton Turning Basin; 20 feet in the Sixth Street Turning Basin and 15 feet in the Turning Basin at the 19 mile point. Navigation season: March 24 to December 31.

**Comparative Statement of Traffic**  
 (thousand tons) |

Year	Total	Year	Total
1981	2,594	1986	3,917
1982	1,609	1987	4,342
1983	2,386	1988	4,571
1984	2,542	1989	4,674
1985	3,903	1990	4,039

**Freight Traffic, 1990**  
 (thousand tons) |

Commodity	Grand Total	Foreign		Imports	Domestic			
		Imports	Exports		Total	Lakewise		
						Receipts	Shipments	
<b>Total, all commodities</b>	<b>4,039</b>	<b>14</b>	<b>4</b>	<b>553</b>	<b>3,468</b>	<b>3,443</b>	<b>25</b>	
<b>Total coal</b>	<b>128</b>	-----	-----	-----	<b>128</b>	<b>128</b>	-----	
1100 coal lignite	128	-----	-----	-----	128	128	-----	
<b>Total petroleum and petroleum products</b>	<b>63</b>	-----	-----	<b>17</b>	<b>46</b>	<b>21</b>	<b>25</b>	
<b>Subtotal petroleum products</b>	<b>63</b>	-----	-----	<b>17</b>	<b>46</b>	<b>21</b>	<b>25</b>	
2211 gasoline	36	-----	-----	12	24	11	12	
2330 distillate fuel oil	17	-----	-----	4	13	-----	13	
2340 residual fuel oil	10	-----	-----	-----	10	10	-----	

**SAGINAW RIVER, MI**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) | | | | | |

Commodity	Grand Total	Foreign		Canadian Imports	Domestic	
		Imports	Exports		Total	Lakewise Shipments
				Receipts	Shipments	
<b>Total chemicals and related products</b>	<b>262</b>	<b>14</b>	<b>4</b>	<b>134</b>	<b>110</b>	<b>110</b> -----
<b>Subtotal fertilizers</b>	<b>148</b>	<b>14</b> -----		<b>134</b>	-----	-----
3110 nitrogenous fert.	34	14		19	-----	-----
3130 potassic fert.	114	-----		114	-----	-----
<b>Subtotal other chemicals and related products</b>	<b>114</b>	-----	<b>4</b>	-----	<b>110</b>	<b>110</b> -----
3219 other hydrocarbons	4	-----	4	-----	-----	-----
3260 organic comp. nec	1	-----	1	-----	-----	-----
3275 inorg. elem., oxides, & halogen salts	8	-----	-----	-----	8	8 -----
3276 metallic salts	102	-----	-----	-----	102	102 -----
<b>Total crude materials, inedible except fuels</b>	<b>3,213</b>	-----		<b>127</b>	<b>3,086</b>	<b>3,086</b> -----
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>3,014</b>	-----		-----	<b>3,014</b>	<b>3,014</b> -----
4322 limestone	2,782	-----	-----	-----	2,782	2,782 -----
4331 sand & gravel	232	-----	-----	232	232	232 -----
<b>Subtotal slag</b>	<b>25</b>	-----		<b>15</b>	<b>10</b>	<b>10</b> -----
4860 slag	25	-----	15	15	10	10 -----
<b>Subtotal other non-metal. min.</b>	<b>173</b>	-----		<b>112</b>	<b>61</b>	<b>61</b> -----
4900 non-metal. min. nec	173	-----	112	112	61	61 -----
<b>Total primary manufactured goods</b>	<b>374</b>	<b>0</b> -----		<b>276</b>	<b>98</b>	<b>98</b> -----
<b>Subtotal lime, cement and glass</b>	<b>374</b>	<b>0</b> -----		<b>276</b>	<b>98</b>	<b>98</b> -----
5220 cement & concrete	374	-----	276	276	98	98 -----
5240 glass & glass prod.	0	0	-----	-----	-----	-----
<b>Total food and farm products</b>	<b>0</b>	<b>0</b> -----		-----	-----	-----
<b>Subtotal other agricultural products</b>	<b>0</b>	<b>0</b> -----		-----	-----	-----
6885 alcoholic beverages	0	0	-----	-----	-----	-----
<b>Total all manufactured equipment, machinery and products</b>	<b>0</b>	-----		<b>0</b>	-----	-----
7220 aircraft & parts	0	-----	0	0	-----	-----

## ST. CLAIR RIVER, MI

Section Included: Entire length of St. Clair River and Black River up to Washington Avenue in Port Huron.  
 Controlling Depths: 27 to 30 feet in St. Clair River at Port Huron and 20 feet in Black River.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	86,824	1986	65,350
1982	54,689	1987	68,396
1983	60,123	1988	76,541
1984	74,351	1989	78,458
1985	69,918	1990	75,440

Freight Traffic, 1990  
(thousand tons)

Commodity	Total	Foreign				Canadian		
		Imports	Exports	Through Upbound	Downbnd	Imports	Through Upbound	Downbnd
<b>Total, all commodities</b>	<b>19,438</b>	1	8	1,343	2,449	143	10,385	5,110
<b>Total coal</b>	<b>5,998</b>	-----	-----	-----	8	-----	5,847	143
1100 coal lignite	5,998	-----	-----	-----	8	-----	5,847	143
<b>Total petroleum and petroleum products</b>	<b>1,188</b>	-----	-----	0	306	2	255	625
<b>Subtotal crude petroleum</b>	<b>7</b>	-----	-----	-----	-----	-----	-----	7
2100 crude petroleum	7	-----	-----	-----	-----	-----	-----	7
<b>Subtotal petroleum products</b>	<b>1,182</b>	-----	-----	0	306	2	255	618
2211 gasoline	81	-----	-----	-----	-----	-----	25	55
2330 distillate fuel oil	140	-----	-----	-----	3	-----	26	111
2340 residual fuel oil	446	-----	-----	-----	-----	-----	53	394
2350 lube oil & greases	30	-----	-----	0	0	0	29	0
2429 naphtha & solvents	18	-----	-----	-----	-----	-----	15	4
2430 asphalt, tar & pitch	110	-----	-----	-----	-----	0	106	4
2540 petroleum coke	353	-----	-----	303	-----	-----	-----	50
2640 liquid natural gas	4	-----	-----	-----	-----	2	2	-----
<b>Total chemicals and related products</b>	<b>1,185</b>	0	-----	36	39	14	489	608
<b>Subtotal fertilizers</b>	<b>662</b>	0	-----	18	33	0	33	577
3110 nitrogenous fert.	74	0	-----	18	-----	0	8	48
3130 potassic fert.	542	-----	-----	-----	-----	-----	26	516
3190 fert. & mixes nec	46	-----	-----	-----	33	-----	-----	13
<b>Subtotal other chemicals and related products</b>	<b>523</b>	0	-----	18	6	13	455	31
3211 acyclic hydrocarbons	15	-----	-----	-----	-----	0	13	1
3212 benzene & toluene	7	-----	-----	-----	-----	-----	2	5
3219 other hydrocarbons	122	-----	-----	4	4	1	104	8
3220 alcohols	35	-----	-----	0	-----	-----	35	-----
3230 carboxylic acids	0	0	-----	0	0	-----	-----	-----
3240 nitrogen func. comp.	16	-----	-----	0	0	9	6	0
3250 organo-inorgan. comp	0	-----	-----	-----	-----	0	-----	-----

**ST. CLAIR RIVER, MI**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) | | | | | |

Commodity	Total	Foreign			Canadian			
		Imports	Exports	Through Upbound	Through Downbnd	Imports	Through Upbound	Through Downbnd
3260 organic comp. nec	16	-----	-----	1	-----	14	1	
3272 sulphuric acid	0	-----	-----	-----	-----	0	-----	
3273 ammonia	19	-----	-----	-----	2	17	0	
3274 sodium hydroxide	204	-----	-----	0	0	195	9	
3275 inorg. elem.,oxides, & halogen salts	61	-----	-----	8	-----	0	47	
3276 metallic salts	1	-----	-----	0	0	1	-----	
3279 inorganic chem. nec	0	-----	-----	-----	0	-----	-----	
3282 pigments & paints	4	-----	-----	3	0	0	1	
3283 coloring mat. nec	0	-----	-----	0	-----	-----	0	
3284 medicines	0	-----	-----	0	-----	-----	-----	
3285 perfumes & cleansers	0	-----	-----	0	-----	0	0	
3286 plastics	22	0	-----	0	1	0	19	
3291 pesticides	0	-----	-----	0	-----	-----	-----	
3292 starches,gluten,glue	0	-----	-----	0	-----	-----	-----	
3293 explosives	0	-----	-----	0	-----	-----	-----	
3297 chemical additives	0	-----	-----	0	0	-----	-----	
3298 wood & resin chem.	1	-----	-----	-----	-----	1	-----	
3299 chem. products nec	0	0	-----	0	0	-----	0	
<b>Total crude materials, inedible except fuels</b>	<b>4,695</b>	<b>0</b>	<b>-----</b>	<b>102</b>	<b>243</b>	<b>62</b>	<b>2,728</b>	<b>1,560</b>
<b>Subtotal forest products, wood and chips</b>	<b>1</b>	<b>-----</b>	<b>-----</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
4170 wood in the rough	0	-----	-----	-----	-----	-----	-----	0
4189 lumber	1	-----	-----	0	0	0	0	0
4190 forest products nec	0	-----	-----	0	-----	-----	-----	-----
<b>Subtotal pulp and waste paper</b>	<b>43</b>	<b>0</b>	<b>-----</b>	<b>21</b>	<b>1</b>	<b>12</b>	<b>9</b>	<b>-----</b>
4225 pulp & waste paper	43	0	-----	21	1	12	9	-----
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>1,376</b>	<b>-----</b>	<b>-----</b>	<b>0</b>	<b>0</b>	<b>246</b>	<b>1,130</b>	
4310 building stone	52	-----	-----	0	-----	-----	52	
4322 limestone	1,000	-----	-----	-----	-----	-----	1,000	
4327 phosphate rock	119	-----	-----	-----	-----	119	-----	
4331 sand & gravel	205	-----	-----	-----	0	127	78	
<b>Subtotal iron ore and scrap</b>	<b>1,637</b>	<b>-----</b>	<b>-----</b>	<b>29</b>	<b>166</b>	<b>-----</b>	<b>1,390</b>	<b>52</b>
4410 iron ore	1,405	-----	-----	29	-----	-----	1,376	-----
4420 iron & steel scrap	232	-----	-----	-----	166	-----	14	52
<b>Subtotal non-ferrous ores and scrap</b>	<b>57</b>	<b>-----</b>	<b>-----</b>	<b>52</b>	<b>5</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
4650 aluminum ore	17	-----	-----	17	-----	-----	-----	-----
4670 manganese ore	36	-----	-----	36	-----	-----	-----	-----
4680 non-ferrous scrap	5	-----	-----	-----	5	-----	-----	-----
<b>Subtotal sulphur, clay and salt</b>	<b>69</b>	<b>0</b>	<b>-----</b>	<b>68</b>	<b>-----</b>	<b>-----</b>	<b>1</b>	
4782 clay & refrac. mat.	69	0	-----	68	-----	-----	1	
<b>Subtotal slag</b>	<b>340</b>	<b>-----</b>	<b>-----</b>	<b>3</b>	<b>-----</b>	<b>134</b>	<b>204</b>	
4860 slag	340	-----	-----	3	-----	134	204	
<b>Subtotal other non-metal. min.</b>	<b>1,171</b>	<b>-----</b>	<b>-----</b>	<b>0</b>	<b>0</b>	<b>49</b>	<b>949</b>	<b>172</b>
4900 non-metal. min. nec	1,171	-----	-----	0	0	49	949	172

ST. CLAIR RIVER, MI  
Freight Traffic, 1990 - continued  
(thousand tons)

Commodity	Total	Foreign				Canadian			
		Imports	Exports	Through Upbound	Downbnd	Imports	Through Upbound	Downbnd	
<b>Total primary manufactured goods</b>	<b>1,879</b>	0	0	1,184	210	3	440	41	
<b>Subtotal paper products</b>	<b>4</b>	0	0	0	0	2	2	0	
5110 newsprint	3	-----	-----	-----	-----	2	1	0	
5120 paper & paperboard	1	0	-----	0	-----	-----	1	0	
5190 paper products nec	0	0	0	0	0	-----	1	0	
<b>Subtotal lime, cement and glass</b>	<b>416</b>	0	-----	3	0	-----	373	40	
5220 cement & concrete	412	-----	-----	-----	-----	-----	373	39	
5240 glass & glass prod.	0	-----	-----	0	0	-----	0	0	
5290 misc. mineral prod.	4	0	-----	3	0	-----	0	1	
<b>Subtotal primary iron and steel products</b>	<b>1,449</b>	-----	-----	1,174	210	0	64	0	
5312 pig iron	134	-----	-----	85	-----	-----	49	-----	
5315 ferro alloys	46	-----	-----	32	-----	-----	13	-----	
5320 i&s primary forms	46	-----	-----	46	-----	0	-----	-----	
5330 i&s plates & sheets	1,077	-----	-----	867	210	0	-----	0	
5360 i&s bars & shapes	129	-----	-----	129	-----	-----	0	0	
5370 i&s pipe & tube	14	-----	-----	12	-----	-----	2	-----	
5390 primary i&s nec	4	-----	-----	4	-----	-----	0	-----	
<b>Subtotal primary non-ferrous metal products</b>	<b>8</b>	0	-----	7	0	0	1	0	
5421 copper	0	-----	-----	0	0	-----	-----	-----	
5422 aluminum	1	-----	-----	0	-----	-----	0	-----	
5429 smelted prod. nec	4	-----	-----	3	-----	0	0	-----	
5480 fab. metal products	4	0	-----	3	0	0	0	0	
<b>Subtotal primary wood products</b>	<b>1</b>	-----	-----	0	-----	1	0	-----	
5540 primary wood prod.	1	-----	-----	0	-----	1	0	-----	
<b>Total food and farm products</b>	<b>3,791</b>	0	8	2	1,630	1	19	2,131	
<b>Subtotal grain</b>	<b>3,594</b>	-----	-----	0	1,445	-----	18	2,131	
6241 wheat	1,807	-----	-----	951	-----	-----	-----	856	
6344 corn	509	-----	-----	229	-----	-----	-----	281	
6442 rice	0	-----	-----	0	-----	-----	-----	-----	
6443 barley & rye	1,214	-----	-----	265	-----	-----	-----	949	
6445 oats	64	-----	-----	-----	-----	18	45	-----	
<b>Subtotal oilseeds</b>	<b>118</b>	0	-----	118	-----	-----	-----	0	
6522 soybeans	118	-----	-----	118	-----	-----	-----	-----	
6590 oilseeds nec	0	0	-----	0	-----	-----	-----	0	
<b>Subtotal vegetable products</b>	<b>27</b>	0	-----	0	26	0	0	0	
6653 vegetable oils	0	0	-----	0	-----	-----	-----	-----	
6654 vegetables & prod.	27	-----	-----	0	26	0	0	0	
<b>Subtotal processed grain and animal feed</b>	<b>16</b>	-----	8	0	7	1	-----	-----	
6746 wheat flour	0	-----	-----	0	-----	-----	-----	-----	
6747 grain mill products	0	-----	-----	0	0	-----	-----	-----	
6782 animal feed, prep.	16	-----	8	0	6	1	-----	-----	

ST. CLAIR RIVER, MI  
Freight Traffic, 1990 - continued  
(thousand tons)

Commodity	Total	Foreign			Canadian			
		Imports	Exports	Through Upbound	Through Downbnd	Imports	Through Upbound	Through Downbnd
<b>Subtotal other agricultural products</b>	<b>37</b>	0	-----	1	34	0	1	1
6817 meat, prepared	0	-----	-----	0	-----	-----	-----	-----
6822 dairy products	0	-----	-----	0	-----	-----	-----	0
6835 fish, prepared	0	-----	-----	0	-----	-----	-----	-----
6838 tallow, animal oils	8	-----	-----	-----	8	-----	-----	-----
6839 animals & prod. nec	0	-----	-----	0	-----	0	0	-----
6857 fruit & nuts nec	0	-----	-----	-----	0	-----	-----	-----
6858 fruit juices	0	-----	-----	0	0	-----	-----	-----
6871 coffee	0	-----	-----	0	-----	-----	-----	0
6872 cocoa beans	0	-----	-----	0	-----	-----	-----	-----
6885 alcoholic beverages	1	0	-----	0	-----	-----	0	1
6889 food products nec	1	-----	-----	0	-----	-----	1	-----
6899 farm products nec	25	-----	-----	0	25	-----	-----	0
<b>Total all manufactured equipment, machinery and products</b>	<b>677</b>	<b>1</b>	<b>0</b>	<b>18</b>	<b>14</b>	<b>59</b>	<b>583</b>	<b>2</b>
7110 machinery (not elec)	26	0	-----	11	13	1	1	0
7120 electrical machinery	3	0	-----	1	0	0	1	0
7210 vehicles & parts	621	0	-----	2	0	52	566	1
7220 aircraft & parts	0	-----	-----	0	-----	-----	0	-----
7230 ships & boats	0	-----	-----	0	0	-----	0	0
7300 ordnance & access.	0	-----	-----	-----	0	-----	-----	-----
7400 manufac. wood prod.	0	-----	-----	0	-----	-----	-----	-----
7500 textile products	2	0	-----	2	0	-----	0	1
7600 rubber & plastic pr.	21	-----	-----	1	0	6	15	0
7900 manufac. prod. nec	3	0	0	1	0	1	0	0
<b>Total unknown or not elsewhere classified</b>	<b>24</b>	<b>0</b>	<b>-----</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>22</b>	<b>0</b>
9900 unknown or nec	24	0	-----	0	0	2	22	0
<b>Ton-miles (x1000) Foreign &amp; Canadian</b>	<b>756,284</b>		<b>290</b>		<b>95,505</b>		<b>405,009</b>	
		32		52,367		3,801		199,278

Commodity	Total	Domestic					
		Lakewise		Internal		Receipts Upbound	Downbnd
		Through	Through	Through	Through		
<b>Total, all commodities</b>	<b>56,001</b>	<b>10,197</b>	<b>5,594</b>	<b>40,207</b>		<b>2</b>	<b>1</b>
<b>Total coal</b>	<b>15,750</b>	<b>8,924</b>	<b>4,949</b>	<b>1,877</b>		-----	-----
1100 coal lignite	15,750	8,924	4,949	1,877		-----	-----
<b>Total petroleum and petroleum products</b>	<b>385</b>	<b>78</b>	<b>88</b>	<b>217</b>		<b>2</b>	-----
<b>Subtotal petroleum products</b>	<b>385</b>	<b>78</b>	<b>88</b>	<b>217</b>		<b>2</b>	-----
2211 gasoline	32	-----	32	-----		-----	-----

ST. CLAIR RIVER, MI  
Freight Traffic, 1990 - continued  
(thousand tons)

Commodity	Total	Domestic					
		Lakewise		Internal		Receipts	Through Upbound
		Upbound	Downbnd	Upbound	Downbnd		
2330 distillate fuel oil	100	50	47	2	—	—	—
2340 residual fuel oil	45	27	10	5	—	2	—
2430 asphalt, tar & pitch	191	—	—	191	—	—	—
2540 petroleum coke	18	—	—	18	—	—	—
<b>Total chemicals and related products</b>	<b>8</b>	—	—	<b>8</b>	—	—	—
<b>Subtotal other chemicals and related products</b>	<b>8</b>	—	—	<b>8</b>	—	—	—
3275 inorg. elem., oxides, & halogen salts	8	—	—	8	—	—	—
<b>Total crude materials, inedible except fuels</b>	<b>37,848</b>	<b>1,195</b>	<b>549</b>	<b>36,104</b>	—	—	—
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>9,978</b>	<b>1,195</b>	<b>17</b>	<b>8,766</b>	—	—	—
4322 limestone	9,114	1,195	—	7,918	—	—	—
4323 gypsum	661	—	—	661	—	—	—
4331 sand & gravel	203	—	17	186	—	—	—
<b>Subtotal iron ore and scrap</b>	<b>27,320</b>	—	<b>21</b>	<b>27,299</b>	—	—	—
4410 iron ore	27,320	—	21	27,299	—	—	—
<b>Subtotal sulphur, clay and salt</b>	<b>25</b>	—	—	<b>25</b>	—	—	—
4782 clay & refrac. mat.	25	—	—	25	—	—	—
<b>Subtotal slag</b>	<b>94</b>	—	<b>80</b>	<b>14</b>	—	—	—
4860 slag	94	—	80	14	—	—	—
<b>Subtotal other non-metal. min.</b>	<b>431</b>	—	<b>431</b>	—	—	—	—
4900 non-metal. min. nec	431	—	431	—	—	—	—
<b>Total primary manufactured goods</b>	<b>1,100</b>	—	—	<b>1,100</b>	—	—	—
<b>Subtotal lime, cement and glass</b>	<b>1,100</b>	—	—	<b>1,100</b>	—	—	—
5220 cement & concrete	1,100	—	—	1,100	—	—	—
<b>Total food and farm products</b>	<b>909</b>	—	—	<b>909</b>	—	—	—
<b>Subtotal grain</b>	<b>909</b>	—	—	<b>909</b>	—	—	—
6241 wheat	909	—	—	909	—	—	—
<b>Total all manufactured equipment, machinery and products</b>	<b>1</b>	—	—	—	—	—	<b>1</b>
7110 machinery (not elec)	1	—	—	—	—	—	1
<b>Ton-miles (x1000)</b>		<b>1,960,879</b>		<b>218,156</b>		<b>90</b>	
<b>Domestic</b>		174,523		1,568,071			39
<b>Tons All Traffic (x1000)</b>			<b>75,440</b>				
<b>Ton-miles All Traffic (x1000)</b>			2,717,176				

## PORT HURON, MI (INCLUDED IN ST. CLAIR RIVER)

**Section Included:** West bank of the St. Clair River from mouth of river to Grand Trunk Western Railroad Bridge and both banks of the Black River up to Washington Avenue in Port Huron, Michigan. **Controlling Depths:** from Lake St. Clair to Stag Island, 27.1 feet. In the Stag Island to Port Huron channel and the foot of Lake Huron channel, 27.3 feet and 30 feet respectively. In the Black River, 17 feet, for a width of 70 feet, from the mouth to 1,700 feet upstream of the Grand Trunk Western Railroad Bridge, and 15 feet for a width of 50 feet through the settling basin to Washington Avenue. **Project Depths:** In the St. Clair River, slopes from 30 feet at head to 27.5 feet at Grand Trunk Western Railroad Bridge. In the Black River, 20 feet from the mouth to the upper end of the settling basin, about 2,300 feet upstream from the Grand Trunk Western Railroad Bridge.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	628	1986	519
1982	321	1987	539
1983	331	1988	955
1984	579	1989	1,034
1985	325	1990	1,429

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic Lakewise Receipts
		Imports	Exports	Imports	Exports	
<b>Total, all commodities</b>	<b>1,429</b>	<b>1</b>	<b>8</b>	<b>1,001</b>	<b>76</b>	<b>343</b>
<b>Total coal</b>	<b>28</b>	-----	-----	-----	-----	<b>28</b>
1100 coal lignite	28	-----	-----	-----	-----	28
<b>Total petroleum and petroleum products</b>	<b>67</b>	-----	-----	<b>7</b>	<b>59</b>	-----
<b>Subtotal petroleum products</b>	<b>67</b>	-----	-----	<b>7</b>	<b>59</b>	-----
2330 distillate fuel oil	12	-----	-----	-----	12	-----
2340 residual fuel oil	2	-----	-----	2	-----	-----
2350 lube oil & greases	0	-----	-----	0	0	-----
2429 naphtha & solvents	4	-----	-----	0	4	-----
2430 asphalt, tar & pitch	1	-----	-----	1	-----	-----
2540 petroleum coke	44	-----	-----	-----	44	-----
2640 liquid natural gas	4	-----	-----	4	-----	-----
<b>Total chemicals and related products</b>	<b>323</b>	<b>0</b>	-----	<b>310</b>	<b>13</b>	-----
<b>Subtotal fertilizers</b>	<b>15</b>	<b>0</b>	-----	<b>3</b>	<b>13</b>	-----
3110 nitrogenous fert.	3	0	-----	3	-----	-----
3190 fert. & mixes nec	13	-----	-----	-----	13	-----
<b>Subtotal other chemicals and related products</b>	<b>308</b>	<b>0</b>	-----	<b>308</b>	<b>0</b>	-----
3211 acyclic hydrocarbons	13	-----	-----	13	-----	-----
3212 benzene & toluene	1	-----	-----	1	-----	-----
3219 other hydrocarbons	43	-----	-----	43	-----	-----
3220 alcohols	0	-----	-----	0	-----	-----
3230 carboxylic acids	0	0	-----	-----	-----	-----
3240 nitrogen func. comp.	16	-----	-----	16	0	-----
3260 organic comp. nec	12	-----	-----	12	-----	-----
3272 sulphuric acid	0	-----	-----	0	-----	-----
3273 ammonia	19	-----	-----	19	-----	-----

PORT HURON, MI (INCLUDED IN ST. CLAIR RIVER)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

	Commodity	Grand Total	Foreign		Canadian		Domestic
			Imports	Exports	Imports	Exports	Lakewise Receipts
3274	sodium hydroxide	139	-----	-----	139	-----	-----
3275	inorg. elem.,oxides, & halogen salts	46	-----	-----	46	0	-----
3279	inorganic chem. nec	0	-----	-----	0	-----	-----
3282	pigments & paints	1	-----	-----	1	0	-----
3283	coloring mat. nec	0	-----	-----	-----	0	-----
3285	perfumes & cleansers	0	-----	-----	-----	0	-----
3286	plastics	17	0	-----	17	0	-----
3299	chem. products nec	0	0	-----	-----	0	-----
<b>Total crude materials, Inedible except fuels</b>		<b>344</b>	<b>0</b>	<b>-----</b>	<b>28</b>	<b>1</b>	<b>315</b>
<b>Subtotal forest products, wood and chips</b>		<b>1</b>	<b>-----</b>	<b>-----</b>	<b>1</b>	<b>0</b>	<b>-----</b>
4170	wood in the rough	0	-----	-----	-----	0	-----
4189	lumber	1	-----	-----	1	0	-----
<b>Subtotal pulp and waste paper</b>		<b>21</b>	<b>0</b>	<b>-----</b>	<b>21</b>	<b>-----</b>	<b>-----</b>
4225	pulp & waste paper	21	0	-----	21	-----	-----
<b>Subtotal soil, sand, gravel, rock and stone</b>		<b>315</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>315</b>
4322	limestone	315	-----	-----	-----	-----	315
<b>Subtotal iron ore and scrap</b>		<b>0</b>	<b>-----</b>	<b>-----</b>	<b>0</b>	<b>-----</b>	<b>-----</b>
4420	iron & steel scrap	0	-----	-----	0	-----	-----
<b>Subtotal sulphur, clay and salt</b>		<b>1</b>	<b>0</b>	<b>-----</b>	<b>1</b>	<b>-----</b>	<b>-----</b>
4782	clay & refrac. mat.	1	0	-----	1	-----	-----
<b>Subtotal slag</b>		<b>0</b>	<b>-----</b>	<b>-----</b>	<b>0</b>	<b>-----</b>	<b>-----</b>
4860	slag	0	-----	-----	0	-----	-----
<b>Subtotal other non-metal. min.</b>		<b>6</b>	<b>-----</b>	<b>-----</b>	<b>6</b>	<b>-----</b>	<b>-----</b>
4900	non-metal. min. nec	6	-----	-----	6	-----	-----
<b>Total primary manufactured goods</b>		<b>10</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>2</b>	<b>-----</b>
<b>Subtotal paper products</b>		<b>4</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>-----</b>
5110	newsprint	3	-----	-----	3	0	-----
5120	paper & paperboard	1	0	-----	1	0	-----
5190	paper products nec	0	0	0	-----	-----	-----
<b>Subtotal lime, cement and glass</b>		<b>1</b>	<b>0</b>	<b>-----</b>	<b>1</b>	<b>-----</b>	<b>-----</b>
5240	glass & glass prod.	0	-----	-----	0	-----	-----
5290	misc. mineral prod.	1	0	-----	1	-----	-----
<b>Subtotal primary Iron and steel products</b>		<b>3</b>	<b>-----</b>	<b>-----</b>	<b>3</b>	<b>0</b>	<b>-----</b>
5320	i&s primary forms	0	-----	-----	0	-----	-----
5330	i&s plates & sheets	0	-----	-----	0	0	-----
5360	i&s bars & shapes	0	-----	-----	0	0	-----
5370	i&s pipe & tube	2	-----	-----	2	-----	-----
5390	primary i&s nec	0	-----	-----	0	-----	-----
<b>Subtotal primary non-ferrous metal products</b>		<b>1</b>	<b>0</b>	<b>-----</b>	<b>1</b>	<b>0</b>	<b>-----</b>
5422	aluminum	0	-----	-----	0	-----	-----
5429	smelted prod. nec	0	-----	-----	0	-----	-----
5480	fab. metal products	0	0	-----	0	0	-----
<b>Subtotal primary wood products</b>		<b>1</b>	<b>-----</b>	<b>-----</b>	<b>1</b>	<b>-----</b>	<b>-----</b>
5540	primary wood prod.	1	-----	-----	1	-----	-----

PORT HURON, MI (INCLUDED IN ST. CLAIR RIVER)  
Freight Traffic, 1990 - continued  
(thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic
		Imports	Exports	Imports	Exports	Lakewise Receipts
<b>Total food and farm products</b>	10	0	8	1	1	-----
<b>Subtotal oilseeds</b>	0	-----	0	-----	0	-----
6590 oilseeds nec	0	-----	0	-----	0	-----
<b>Subtotal vegetable products</b>	0	0	-----	0	0	-----
6653 vegetable oils	0	0	-----	-----	-----	-----
6654 vegetables & prod.	0	-----	-----	0	0	-----
<b>Subtotal processed grain and animal feed</b>	9	-----	8	1	-----	-----
6782 animal feed, prep.	9	-----	8	1	-----	-----
<b>Subtotal other agricultural products</b>	1	0	-----	0	1	-----
6822 dairy products	0	-----	-----	-----	0	-----
6839 animals & prod. nec	0	-----	0	-----	-----	-----
6871 coffee	0	-----	-----	-----	0	-----
6885 alcoholic beverages	1	0	-----	-----	1	-----
<b>Total all manufactured equipment, machinery and products</b>	643	1	0	642	0	-----
7110 machinery (not elec)	1	0	-----	1	0	-----
7120 electrical machinery	2	0	-----	2	0	-----
7210 vehicles & parts	618	0	-----	618	0	-----
7230 ships & boats	0	-----	-----	0	-----	-----
7500 textile products	0	0	-----	0	-----	-----
7600 rubber & plastic pr.	21	-----	-----	21	0	-----
7900 manufac. prod. nec	2	0	0	1	0	-----
<b>Total unknown or not elsewhere classified</b>	4	0	-----	4	-----	-----
9900 unknown or nec	4	0	-----	4	-----	-----

## MARYSVILLE, MI (INCLUDED IN ST. CLAIR RIVER)

Section Included: West bank of St. Clair River at Marysville, Mich. Controlling Depth: 27.4 feet. Project Depth: at low-water datum; 27.4 feet to and from Lake Huron; 27.1 feet downbound to Lake St. Clair.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	264	1986	210
1982	293	1987	440
1983	286	1988	221
1984	333	1989	559
1985	74	1990	615

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Canadian		Domestic
		Imports	Exports	Lakewise Receipts
<b>Total, all commodities</b>	<b>615</b>	<b>140</b>	<b>7</b>	<b>468</b>
<b>Total coal</b>	<b>60</b>	-----	-----	<b>60</b>
1100 coal lignite	60	-----	-----	60
<b>Total petroleum and petroleum products</b>	<b>58</b>	<b>13</b>	<b>7</b>	<b>39</b>
<b>Subtotal petroleum products</b>	<b>58</b>	<b>13</b>	<b>7</b>	<b>39</b>
2330 distillate fuel oil	16	-----	-----	16
2340 residual fuel oil	35	13	-----	23
2540 petroleum coke	7	-----	7	-----
<b>Total chemicals and related products</b>	<b>3</b>	<b>3</b>	-----	-----
<b>Subtotal fertilizers</b>	<b>1</b>	<b>1</b>	-----	-----
3110 nitrogenous fert.	1	1	-----	-----
<b>Subtotal other chemicals and related products</b>	<b>1</b>	<b>1</b>	-----	-----
3273 ammonia	0	0	-----	-----
3274 sodium hydroxide	0	0	-----	-----
3275 inorg. elem., oxides, & halogen salts	1	1	-----	-----
<b>Total crude materials, inedible except fuels</b>	<b>494</b>	<b>125</b>	<b>0</b>	<b>369</b>
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>450</b>	<b>81</b>	<b>0</b>	<b>369</b>
4322 limestone	369	-----	0	369
4331 sand & gravel	81	81	-----	-----
<b>Subtotal other non-metal. min.</b>	<b>43</b>	<b>43</b>	-----	-----
4900 non-metal. min. nec	43	43	-----	-----
<b>Total food and farm products</b>	<b>0</b>	<b>0</b>	-----	-----
<b>Subtotal other agricultural products</b>	<b>0</b>	<b>0</b>	-----	-----
6839 animals & prod. nec	0	0	-----	-----
<b>Total all manufactured equipment, machinery and products</b>	<b>0</b>	<b>0</b>	-----	-----
7210 vehicles & parts	0	0	-----	-----

**MARYSVILLE, MI (INCLUDED IN ST. CLAIR RIVER)**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) |

Commodity	Grand Total	Canadian		Domestic
		Imports	Exports	Lakewise Receipts
<b>Total unknown or not elsewhere classified</b>	<b>0</b>	<b>0</b>	-----	-----
9900    unknown or nec	0	0	-----	-----

**ST. CLAIR, MI (INCLUDED IN ST. CLAIR RIVER)**

Section Included: West bank of St. Clair River at St. Clair, Mich. Controlling Depth: 27.3 feet. Project Depth: 27.3 feet.

**Comparative Statement of Traffic**  
 (thousand tons) |

Year	Total	Year	Total
1981	3,351	1986	8,608
1982	3,259	1987	8,450
1983	4,242	1988	8,212
1984	5,380	1989	5,756
1985	6,177	1990	4,889

**Freight Traffic, 1990**  
 (thousand tons) |

Commodity	Grand Total	Lakewise Receipts
<b>Total, all commodities</b>	<b>4,889</b>	<b>4,889</b>
<b>Total coal</b>	<b>4,850</b>	<b>4,850</b>
1100    coal lignite	4,850	4,850
<b>Total petroleum and petroleum products</b>	<b>39</b>	<b>39</b>
<b>Subtotal petroleum products</b>	<b>39</b>	<b>39</b>
2330    distillate fuel oil	34	34
2340    residual fuel oil	5	5

## MARINE CITY, MI (INCLUDED IN ST. CLAIR RIVER)

Section Included: West bank of St. Clair River at Marine City, Mich., 25.3 miles upbound to Lake Huron; 19.2 miles downbound to Lake St. Clair, Mich. Controlling Depth: 27 feet. Project Depth(at low water datum): 27.3 feet.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	190	1986	382
1982	110	1987	419
1983	163	1988	383
1984	351	1989	328
1985	271	1990	4,497

Freight Traffic, 1990  
(thousand tons)

	Commodity	Grand Total	Lakewise Receipts
<b>Total, all commodities</b>		<b>4,497</b>	<b>4,497</b>
<b>Total coal</b>		<b>3,986</b>	<b>3,986</b>
1100 coal lignite		3,986	3,986
<b>Total crude materials, inedible except fuels</b>		<b>511</b>	<b>511</b>
<b>Subtotal soil, sand, gravel, rock and stone</b>		<b>511</b>	<b>511</b>
4322 limestone		511	511

## CHANNELS IN LAKE ST. CLAIR

Section Included: Improved ship channels connecting St. Clair River and Detroit River across Lake St. Clair, entrance channels to mouth of Clinton River and the Canadian channel to the mouth of the Thames River.  
 Controlling Depths: 27.0 feet in the main channel with 8 feet in channel to Clinton River. Project Depths: 27.5 feet in main channel and 8 feet in Clinton River channel.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	82,294	1986	55,629
1982	50,222	1987	58,521
1983	54,708	1988	66,198
1984	67,819	1989	69,851
1985	62,890	1990	64,034

Freight Traffic, 1990  
(thousand tons)

Commodity	Total	Foreign		Canadian	
		Through		Through	
		Upbound	Downbnd	Upbound	Downbnd
<b>Total, all commodities</b>	<b>17,715</b>	<b>1,344</b>	<b>2,457</b>	<b>8,901</b>	<b>5,014</b>
<b>Total coal</b>	<b>5,993</b>	-----	8	<b>5,842</b>	<b>143</b>
1100 coal lignite	5,993	-----	8	5,842	143
<b>Total petroleum and petroleum products</b>	<b>881</b>	<b>0</b>	<b>306</b>	<b>29</b>	<b>546</b>
<b>Subtotal crude petroleum</b>	<b>7</b>	-----	-----	-----	<b>7</b>
2100 crude petroleum	7	-----	-----	-----	7
<b>Subtotal petroleum products</b>	<b>874</b>	<b>0</b>	<b>306</b>	<b>29</b>	<b>540</b>
2211 gasoline	69	-----	-----	13	55
2330 distillate fuel oil	102	-----	3	-----	99
2340 residual fuel oil	381	-----	-----	-----	381
2350 lube oil & greases	0	0	0	0	-----
2430 asphalt, tar & pitch	18	-----	-----	14	4
2540 petroleum coke	303	-----	303	-----	-----
2640 liquid natural gas	2	-----	-----	2	-----
<b>Total chemicals and related products</b>	<b>702</b>	<b>36</b>	<b>39</b>	<b>33</b>	<b>594</b>
<b>Subtotal fertilizers</b>	<b>619</b>	<b>18</b>	<b>33</b>	<b>4</b>	<b>564</b>
3110 nitrogenous fert.	70	18	-----	4	48
3130 potassic fert.	516	-----	-----	-----	516
3190 fert. & mixes nec	33	-----	33	-----	0
<b>Subtotal other chemicals and related products</b>	<b>83</b>	<b>18</b>	<b>6</b>	<b>29</b>	<b>31</b>
3211 acyclic hydrocarbons	2	-----	-----	0	1
3212 benzene & toluene	5	-----	-----	-----	5
3219 other hydrocarbons	24	4	4	8	8
3220 alcohols	4	0	-----	4	-----
3230 carboxylic acids	0	0	0	-----	-----
3240 nitrogen func. comp.	10	0	0	10	-----
3250 organo-inorgan. comp	0	-----	0	-----	-----
3260 organic comp. nec	4	-----	1	2	1
3273 ammonia	2	-----	-----	2	0
3274 sodium hydroxide	11	-----	0	2	9

**CHANNELS IN LAKE ST. CLAIR**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) |

Commodity	Total	Foreign		Canadian	
		Through		Through	
		Upbound	Downbnd	Upbound	Downbnd
3275 inorg. elem.,oxides, & halogen salts	13	8	-----	0	5
3276 metallic salts	1	0	0	1	-----
3279 inorganic chem. nec	0	-----	-----	0	-----
3282 pigments & paints	3	3	0	0	-----
3283 coloring mat. nec	0	0	-----	-----	-----
3284 medicines	0	0	0	-----	-----
3285 perfumes & cleansers	0	0	0	0	0
3286 plastics	3	0	1	0	1
3291 pesticides	0	-----	0	-----	-----
3292 starches,gluten,glue	0	0	-----	-----	-----
3293 explosives	0	-----	0	-----	-----
3297 chemical additives	0	0	0	-----	-----
3298 wood & resin chem.	1	-----	-----	1	-----
3299 chem. products nec	0	0	0	-----	-----
<b>Total crude materials, Inedible except fuels</b>	<b>4,361</b>	<b>102</b>	<b>243</b>	<b>2,457</b>	<b>1,559</b>
<b>Subtotal forest products, wood and chips</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
4189 lumber	1	0	0	0	0
4190 forest products nec	0	0	-----	-----	-----
<b>Subtotal pulp and waste paper</b>	<b>34</b>	<b>21</b>	<b>1</b>	<b>12</b>	<b>-----</b>
4225 pulp & waste paper	34	21	1	12	-----
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>1,295</b>	<b>0</b>	<b>0</b>	<b>165</b>	<b>1,130</b>
4310 building stone	52	0	-----	-----	52
4322 limestone	1,000	-----	-----	-----	1,000
4327 phosphate rock	119	-----	-----	119	-----
4331 sand & gravel	124	-----	0	46	78
<b>Subtotal iron ore and scrap</b>	<b>1,594</b>	<b>29</b>	<b>166</b>	<b>1,347</b>	<b>52</b>
4410 iron ore	1,374	29	-----	1,346	-----
4420 iron & steel scrap	220	-----	166	2	52
<b>Subtotal non-ferrous ores and scrap</b>	<b>57</b>	<b>52</b>	<b>5</b>	-----	-----
4650 aluminum ore	17	17	-----	-----	-----
4670 manganese ore	36	36	-----	-----	-----
4680 non-ferrous scrap	5	-----	5	-----	-----
<b>Subtotal sulphur, clay and salt</b>	<b>68</b>	<b>0</b>	<b>68</b>	-----	-----
4782 clay & refrac. mat.	68	0	68	-----	-----
<b>Subtotal slag</b>	<b>278</b>	<b>-----</b>	<b>3</b>	<b>71</b>	<b>204</b>
4860 slag	278	-----	3	71	204
<b>Subtotal other non-metal. min.</b>	<b>1,033</b>	<b>0</b>	<b>0</b>	<b>860</b>	<b>172</b>
4900 non-metal. min. nec	1,033	0	0	860	172
<b>Total primary manufactured goods</b>	<b>1,873</b>	<b>1,184</b>	<b>210</b>	<b>439</b>	<b>39</b>
<b>Subtotal paper products</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>
5110 newsprint	2	-----	-----	2	0
5120 paper & paperboard	0	-----	-----	0	0
5190 paper products nec	0	0	0	-----	-----
<b>Subtotal lime, cement and glass</b>	<b>415</b>	<b>3</b>	<b>0</b>	<b>373</b>	<b>39</b>
5220 cement & concrete	412	-----	-----	373	39
5240 glass & glass prod.	0	0	0	0	-----
5290 misc. mineral prod.	3	3	0	0	-----

**CHANNELS IN LAKE ST. CLAIR**  
**Freight Traffic, 1990 - continued**  
 (thousand tons)

Commodity	Total	Foreign		Canadian	
		Through		Through	
		Upbound	Downbnd	Upbound	Downbnd
<b>Subtotal primary Iron and steel products</b>	<b>1,447</b>	<b>1,174</b>	<b>210</b>	<b>62</b>	-----
5312 pig iron	134	85	-----	49	-----
5315 ferro alloys	46	32	-----	13	-----
5320 i&s primary forms	46	46	-----	0	-----
5330 i&s plates & sheets	1,077	867	210	0	-----
5360 i&s bars & shapes	129	129	-----	-----	-----
5370 i&s pipe & tube	12	12	-----	-----	-----
5390 primary i&s nec	4	4	-----	-----	-----
<b>Subtotal primary non-ferrous metal products</b>	<b>7</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>
5421 copper	0	0	-----	-----	-----
5422 aluminum	1	0	-----	0	-----
5429 smelted prod. nec	4	3	-----	0	-----
5480 fab. metal products	3	3	0	0	0
<b>Subtotal primary wood products</b>	<b>1</b>	<b>0</b>	-----	<b>1</b>	-----
5540 primary wood prod.	1	0	-----	1	-----
<b>Total food and farm products</b>	<b>3,790</b>	<b>2</b>	<b>1,637</b>	<b>21</b>	<b>2,131</b>
<b>Subtotal grain</b>	<b>3,594</b>	<b>0</b>	<b>1,445</b>	<b>18</b>	<b>2,131</b>
6241 wheat	1,807	-----	951	-----	856
6344 corn	509	-----	229	-----	281
6442 rice	0	0	-----	-----	-----
6443 barley & rye	1,214	-----	265	-----	949
6445 oats	64	-----	-----	18	45
<b>Subtotal oilseeds</b>	<b>118</b>	-----	<b>118</b>	-----	-----
6522 soybeans	118	-----	118	-----	-----
6590 oilseeds nec	0	-----	0	-----	-----
<b>Subtotal vegetable products</b>	<b>27</b>	<b>0</b>	<b>26</b>	<b>0</b>	-----
6653 vegetable oils	0	0	-----	-----	-----
6654 vegetables & prod.	27	0	26	0	-----
<b>Subtotal processed grain and animal feed</b>	<b>16</b>	<b>0</b>	<b>14</b>	<b>1</b>	-----
6746 wheat flour	0	-----	0	-----	-----
6747 grain mill products	0	0	0	-----	-----
6782 animal feed, prep.	16	0	14	1	-----
<b>Subtotal other agricultural products</b>	<b>36</b>	<b>1</b>	<b>34</b>	<b>1</b>	<b>0</b>
6817 meat, prepared	0	0	-----	-----	-----
6822 dairy products	0	0	-----	0	-----
6835 fish, prepared	0	0	-----	-----	-----
6838 tallow, animal oils	8	-----	8	-----	-----
6839 animals & prod. nec	0	0	-----	0	-----
6857 fruit & nuts nec	0	-----	0	-----	-----
6858 fruit juices	0	0	0	-----	-----
6871 coffee	0	0	-----	-----	-----
6872 cocoa beans	0	0	-----	-----	-----
6885 alcoholic beverages	0	0	-----	0	-----
6889 food products nec	1	0	-----	1	-----
6899 farm products nec	25	0	25	-----	0
<b>Total all manufactured equipment, machinery and products</b>	<b>93</b>	<b>19</b>	<b>14</b>	<b>60</b>	<b>1</b>
7110 machinery (not elec)	26	11	13	1	0
7120 electrical machinery	2	1	0	0	-----
7210 vehicles & parts	54	2	0	52	1

CHANNELS IN LAKE ST. CLAIR  
Freight Traffic, 1990 - continued  
(thousand tons)

Commodity	Total	Foreign		Canadian	
		Through		Through	
		Upbound	Downbnd	Upbound	Downbnd
7220 aircraft & parts	0	0	-----	0	-----
7230 ships & boats	0	0	0	0	0
7300 ordnance & access.	0	-----	0	-----	-----
7400 manufac. wood prod.	0	0	-----	-----	-----
7500 textile products	2	2	0	0	1
7600 rubber & plastic pr.	6	1	0	6	0
7900 manufac. prod. nec	3	2	0	1	0
<b>Total unknown or not elsewhere classified</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>0</b>
9900 unknown or nec	22	0	0	22	0
 <b>Ton-miles (x1000) Foreign &amp; Canadian</b>	 <b>318,875</b>	 <b>24,185</b>	 <b>44,221</b>	 <b>160,213</b>	 <b>90,257</b>

Commodity	Total	Domestic			
		Lakewise		Internal	
		Through	Upbound	Through	Upbound
<b>Total, all commodities</b>	<b>46,318</b>	<b>6,108</b>	<b>40,207</b>	<b>2</b>	<b>1</b>
<b>Total coal</b>	<b>7,264</b>	<b>5,388</b>	<b>1,877</b>	<b>-----</b>	<b>-----</b>
1100 coal lignite	7,264	5,388	1,877	-----	-----
<b>Total petroleum and petroleum products</b>	<b>379</b>	<b>160</b>	<b>217</b>	<b>2</b>	<b>-----</b>
<b>Subtotal petroleum products</b>	<b>379</b>	<b>160</b>	<b>217</b>	<b>2</b>	<b>-----</b>
2211 gasoline	32	32	-----	-----	-----
2330 distillate fuel oil	100	97	2	-----	-----
2340 residual fuel oil	39	31	5	2	-----
2430 asphalt, tar & pitch	191	-----	191	-----	-----
2540 petroleum coke	18	-----	18	-----	-----
<b>Total chemicals and related products</b>	<b>8</b>	<b>8</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
<b>Subtotal other chemicals and related products</b>	<b>8</b>	<b>8</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
3275 inorg. elem., oxides, & halogen salts	8	8	-----	-----	-----
<b>Total crude materials, inedible except fuels</b>	<b>36,656</b>	<b>552</b>	<b>36,104</b>	<b>-----</b>	<b>-----</b>
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>8,786</b>	<b>20</b>	<b>8,766</b>	<b>-----</b>	<b>-----</b>
4322 limestone	7,922	3	7,918	-----	-----
4323 gypsum	661	-----	661	-----	-----
4331 sand & gravel	203	17	186	-----	-----
<b>Subtotal iron ore and scrap</b>	<b>27,320</b>	<b>21</b>	<b>27,299</b>	<b>-----</b>	<b>-----</b>
4410 iron ore	27,320	21	27,299	-----	-----
<b>Subtotal sulphur, clay and salt</b>	<b>25</b>	<b>-----</b>	<b>25</b>	<b>-----</b>	<b>-----</b>
4782 clay & refrac. mat.	25	-----	25	-----	-----

**CHANNELS IN LAKE ST. CLAIR**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) |

Commodity	Total	Domestic			
		Lakewise		Internal	
		Through	Through	Upbound	Downbnd
<b>Subtotal slag</b> 4860    slag	94	80	14	-----	-----
<b>Subtotal other non-metal. min.</b> 4900    non-metal. min. nec	431	431	-----	-----	-----
<b>Total primary manufactured goods</b>	1,100	-----	1,100	-----	-----
<b>Subtotal lime, cement and glass</b> 5220    cement & concrete	1,100	-----	1,100	-----	-----
<b>Total food and farm products</b>	909	-----	909	-----	-----
<b>Subtotal grain</b> 6241    wheat	909	-----	909	-----	-----
<b>Total all manufactured equipment, machinery and products</b>	1	-----	-----	-----	1
7110    machinery (not elec)	1	-----	-----	-----	1
<b>Ton-miles (x1000)</b> <b>Domestic</b>	<b>833,722</b>	<b>109,937</b>	<b>723,725</b>	<b>42</b>	<b>18</b>
<b>Tons All Traffic (x1000)</b> <b>Ton-miles All Traffic (x1000)</b>	<b>64,034</b>				
	<b>1,152,603</b>				

## DETROIT RIVER, MI

Section Included: Entire length of Detroit River and Rouge River to head of project. Controlling Depths: 25 to 28.5 feet and 21 to 25 feet. Respectively with (5 feet of shoaling along the channel limits of the lower Livingstone and east outer channel) and with project depth in the regularly traveled shipping lanes.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	90,406	1986	61,733
1982	56,566	1987	62,689
1983	60,760	1988	71,502
1984	75,052	1989	75,662
1985	69,404	1990	69,636

Freight Traffic, 1990  
(thousand tons)

Commodity	Total	Foreign				Canadian		
		Imports	Exports	Through Upbound	Downbnd	Imports	Through Upbound	Downbnd
<b>Total, all commodities</b>	<b>21,217</b>	<b>732</b>	<b>75</b>	<b>1,344</b>	<b>2,457</b>	<b>1,577</b>	<b>9,516</b>	<b>5,517</b>
<b>Total coal</b>	<b>6,154</b>	-----	-----	-----	<b>8</b>	<b>107</b>	<b>5,842</b>	<b>198</b>
1100 coal lignite	5,993	-----	-----	-----	8	0	5,842	143
1200 coal coke	161	-----	-----	-----		106	-----	55
<b>Total petroleum and petroleum products</b>	<b>1,099</b>	-----	-----	0	<b>306</b>	<b>88</b>	<b>38</b>	<b>667</b>
<b>Subtotal crude petroleum</b>	<b>7</b>	-----	-----	-----		-----	-----	<b>7</b>
2100 crude petroleum	7	-----	-----	-----		-----	-----	7
<b>Subtotal petroleum products</b>	<b>1,092</b>	-----	-----	0	<b>306</b>	<b>88</b>	<b>38</b>	<b>660</b>
2211 gasoline	73	-----	-----	-----		32	13	27
2221 kerosene	15	-----	-----	-----		-----	-----	15
2330 distillate fuel oil	113	-----	-----	-----	3	39	9	63
2340 residual fuel oil	477	-----	-----	-----		13	-----	464
2350 lube oil & greases	0	-----	-----	0	0	-----	0	-----
2430 asphalt, tar & pitch	21	-----	-----	-----		4	14	3
2540 petroleum coke	391	-----	-----	-----	303	-----	-----	89
2640 liquid natural gas	2	-----	-----	-----		-----	2	-----
<b>Total chemicals and related products</b>	<b>853</b>	<b>3</b>	<b>2</b>	<b>36</b>	<b>39</b>	<b>33</b>	<b>33</b>	<b>707</b>
<b>Subtotal fertilizers</b>	<b>714</b>	-----	-----	18	<b>33</b>	<b>0</b>	<b>4</b>	<b>658</b>
3110 nitrogenous fert.	81	-----	-----	18	33	0	4	59
3120 phosphatic fert.	5	-----	-----	-----		-----	-----	5
3130 potassic fert.	516	-----	-----	-----		-----	-----	516
3190 fert. & mixes nec	111	-----	-----	-----	33	0	-----	78
<b>Subtotal other chemicals and related products</b>	<b>140</b>	<b>3</b>	<b>2</b>	<b>18</b>	<b>6</b>	<b>33</b>	<b>29</b>	<b>49</b>
3211 acyclic hydrocarbons	2	-----	-----	-----		-----	0	1
3212 benzene & toluene	5	-----	-----	-----		-----	-----	5
3219 other hydrocarbons	31	0	0	4	4	-----	8	15
3220 alcohols	4	0	-----	0	-----	-----	4	-----
3230 carboxylic acids	1	0	0	0	0	-----	-----	0

**DETROIT RIVER, MI**  
**Freight Traffic, 1990 - continued**  
 (thousand tons)

Commodity	Total	Foreign				Canadian			
		Imports	Exports	Through Upbound	Through Downbnd	Imports	Through Upbound	Through Downbnd	
3240 nitrogen func. comp.	10	-----	0	0	0	-----	10	0	
3250 organo-inorgan. comp	0	0	0	-----	0	-----	-----	-----	
3260 organic comp. nec	4	0	0	-----	1	-----	2	1	
3273 ammonia	2	-----	-----	-----	-----	0	2	0	
3274 sodium hydroxide	11	0	-----	-----	0	-----	2	9	
3275 inorg. elem.,oxides, & halogen salts	15	0	0	8	-----	1	0	5	
3276 metallic salts	19	0	0	0	0	7	1	11	
3279 inorganic chem. nec	1	0	-----	-----	-----	1	0	0	
3282 pigments & paints	3	0	0	3	0	-----	0	-----	
3283 coloring mat. nec	0	-----	-----	0	-----	-----	-----	0	
3284 medicines	1	0	0	0	0	-----	-----	0	
3285 perfumes & cleansers	1	0	1	0	0	-----	0	0	
3286 plastics	4	1	1	0	1	0	0	1	
3291 pesticides	0	0	-----	-----	0	-----	-----	0	
3292 starches,gluten,glue	1	1	-----	0	-----	-----	-----	0	
3293 explosives	0	-----	-----	-----	0	-----	-----	-----	
3297 chemical additives	0	-----	0	0	0	-----	-----	-----	
3298 wood & resin chem.	1	-----	-----	-----	-----	-----	1	0	
3299 chem. products nec	26	0	0	0	0	25	-----	0	
<b>Total crude materials, inedible except fuels</b>	<b>6,198</b>	<b>1</b>	<b>69</b>	<b>102</b>	<b>243</b>	<b>1,227</b>	<b>2,850</b>	<b>1,706</b>	
<b>Subtotal forest products, wood and chips</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>1</b>	<b>0</b>	
4189 lumber	6	0	0	-----	0	5	1	0	
4190 forest products nec	0	-----	-----	0	-----	-----	-----	-----	
<b>Subtotal pulp and waste paper</b>	<b>39</b>	<b>-----</b>	<b>2</b>	<b>21</b>	<b>1</b>	<b>0</b>	<b>12</b>	<b>3</b>	
4225 pulp & waste paper	39	-----	2	21	1	0	12	3	
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>1,518</b>	<b>0</b>	<b>-----</b>	<b>0</b>	<b>0</b>	<b>-----</b>	<b>165</b>	<b>1,353</b>	
4310 building stone	52	0	-----	0	-----	-----	-----	52	
4322 limestone	1,050	-----	-----	-----	-----	-----	-----	1,050	
4323 gypsum	0	-----	-----	-----	-----	-----	-----	0	
4327 phosphate rock	119	-----	-----	-----	-----	-----	119	-----	
4331 sand & gravel	297	0	-----	-----	0	-----	46	251	
<b>Subtotal iron ore and scrap</b>	<b>2,854</b>	<b>1</b>	<b>67</b>	<b>29</b>	<b>166</b>	<b>921</b>	<b>1,506</b>	<b>165</b>	
4410 iron ore	2,548	-----	-----	29	-----	858	1,503	158	
4420 iron & steel scrap	306	1	67	-----	166	63	3	7	
<b>Subtotal non-ferrous ores and scrap</b>	<b>58</b>	<b>0</b>	<b>0</b>	<b>52</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	
4630 copper ore	0	-----	0	-----	-----	-----	-----	-----	
4650 aluminum ore	17	0	-----	17	-----	-----	-----	-----	
4670 manganese ore	36	-----	-----	36	-----	-----	-----	-----	
4680 non-ferrous scrap	5	-----	-----	-----	5	0	0	0	
<b>Subtotal sulphur, clay and salt</b>	<b>70</b>	<b>0</b>	<b>-----</b>	<b>0</b>	<b>68</b>	<b>-----</b>	<b>-----</b>	<b>1</b>	
4782 clay & refrac. mat.	70	0	-----	0	68	-----	-----	1	
<b>Subtotal slag</b>	<b>329</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>3</b>	<b>187</b>	<b>71</b>	<b>68</b>	
4860 slag	329	-----	-----	-----	3	187	71	68	

**DETROIT RIVER, MI**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) | | | | | | |

Commodity	Total	Foreign				Canadian		
		Imports	Exports	Through Upbound	Downbnd	Imports	Through Upbound	Downbnd
<b>Subtotal other non-metal. min.</b>	<b>1,323</b>	-----	-----	0	0	<b>113</b>	<b>1,094</b>	<b>116</b>
4900 non-metal. min. nec	1,323	-----	-----	0	0	113	1,094	116
<b>Total primary manufactured goods</b>	<b>2,737</b>	<b>717</b>	<b>1</b>	<b>1,184</b>	<b>210</b>	<b>90</b>	<b>439</b>	<b>94</b>
<b>Subtotal paper products</b>	<b>20</b>	<b>1</b>	<b>-----</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>2</b>	<b>1</b>
5110 newsprint	17	-----	-----	-----	-----	14	2	0
5120 paper & paperboard	3	1	-----	0	-----	2	0	0
5190 paper products nec	0	0	-----	0	0	-----	-----	0
<b>Subtotal lime, cement and glass</b>	<b>539</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>70</b>	<b>373</b>	<b>90</b>
5220 cement & concrete	534	-----	-----	-----	-----	70	373	90
5240 glass & glass prod.	0	0	0	0	0	-----	0	0
5290 misc. mineral prod.	5	2	0	3	0	0	0	0
<b>Subtotal primary iron and steel products</b>	<b>2,163</b>	<b>712</b>	<b>0</b>	<b>1,174</b>	<b>210</b>	<b>1</b>	<b>62</b>	<b>3</b>
5312 pig iron	134	-----	-----	85	-----	-----	49	-----
5315 ferro alloys	65	20	-----	32	-----	-----	13	-----
5320 i&s primary forms	86	40	-----	46	-----	-----	0	-----
5330 i&s plates & sheets	1,612	532	0	867	210	0	0	3
5360 i&s bars & shapes	236	106	-----	129	-----	1	-----	0
5370 i&s pipe & tube	26	14	-----	12	-----	-----	-----	0
5390 primary i&s nec	4	1	0	4	-----	-----	-----	0
<b>Subtotal primary non-ferrous metal products</b>	<b>11</b>	<b>2</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
5421 copper	0	0	-----	0	0	-----	-----	0
5422 aluminum	1	0	0	0	-----	0	0	0
5429 smelted prod. nec	5	2	-----	3	-----	-----	0	-----
5480 fab. metal products	4	0	0	3	0	0	0	0
<b>Subtotal primary wood products</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>-----</b>	<b>2</b>	<b>1</b>	<b>-----</b>
5540 primary wood prod.	4	0	1	0	-----	2	1	-----
<b>Total food and farm products</b>	<b>3,805</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1,637</b>	<b>1</b>	<b>21</b>	<b>2,141</b>
<b>Subtotal grain</b>	<b>3,594</b>	-----	-----	<b>0</b>	<b>1,445</b>	<b>0</b>	<b>18</b>	<b>2,130</b>
6241 wheat	1,807	-----	-----	-----	951	-----	-----	856
6344 corn	509	-----	-----	-----	229	-----	-----	281
6442 rice	0	-----	-----	0	-----	-----	-----	0
6443 barley & rye	1,214	-----	-----	-----	265	-----	-----	949
6445 oats	64	-----	-----	-----	-----	0	18	45
<b>Subtotal oilseeds</b>	<b>118</b>	<b>0</b>	<b>0</b>	<b>-----</b>	<b>118</b>	-----	-----	<b>0</b>
6521 peanuts	0	-----	-----	-----	-----	-----	-----	0
6522 soybeans	118	0	-----	-----	118	-----	-----	-----
6590 oilseeds nec	0	0	-----	0	-----	-----	-----	-----
<b>Subtotal vegetable products</b>	<b>28</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>26</b>	-----	<b>0</b>	<b>0</b>
6653 vegetable oils	0	-----	-----	0	-----	-----	-----	-----
6654 vegetables & prod.	28	0	1	0	26	-----	0	0
<b>Subtotal processed grain and animal feed</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>0</b>	<b>1</b>	<b>0</b>
6746 wheat flour	0	-----	-----	0	0	-----	-----	0
6747 grain mill products	0	0	-----	0	0	-----	-----	0

**DETROIT RIVER, MI**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) | | | | | | |

Commodity	Total	Foreign				Canadian		
		Imports	Exports	Through Upbound	Downbnd	Imports	Through Upbound	Downbnd
6782 animal feed, prep.	16	-----	0	0	14	0	1	0
<b>Subtotal other agricultural products</b>	<b>48</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>34</b>	-----	<b>1</b>	<b>11</b>
6811 meat, fresh, frozen	0	0	-----	-----	-----	-----	-----	-----
6817 meat, prepared	0	-----	-----	0	-----	-----	-----	0
6822 dairy products	0	-----	-----	0	-----	-----	-----	0
6835 fish, prepared	0	0	-----	0	-----	-----	-----	-----
6838 tallow, animal oils	8	-----	-----	-----	8	-----	-----	-----
6839 animals & prod. nec	0	-----	-----	0	-----	-----	0	-----
6857 fruit & nuts nec	0	-----	0	-----	0	-----	-----	0
6858 fruit juices	1	0	0	0	0	-----	-----	0
6865 molasses	1	-----	-----	-----	-----	-----	-----	1
6871 coffee	0	-----	-----	0	-----	-----	-----	-----
6872 cocoa beans	0	-----	-----	0	-----	-----	-----	-----
6885 alcoholic beverages	11	1	-----	0	-----	-----	0	9
6888 water & ice	0	0	-----	-----	-----	-----	-----	-----
6889 food products nec	2	0	0	0	-----	-----	1	0
6899 farm products nec	25	-----	0	0	25	-----	-----	0
<b>Total all manufactured equipment, machinery and products</b>	<b>347</b>	<b>9</b>	<b>2</b>	<b>19</b>	<b>14</b>	<b>30</b>	<b>270</b>	<b>2</b>
7110 machinery (not elec)	131	3	2	11	13	12	90	0
7120 electrical machinery	3	1	0	1	0	0	1	0
7210 vehicles & parts	198	3	0	2	0	18	174	0
7220 aircraft & parts	0	-----	0	-----	0	0	-----	0
7230 ships & boats	0	-----	0	0	0	-----	0	0
7300 ordnance & access.	0	-----	-----	0	-----	-----	-----	-----
7400 manufac. wood prod.	0	0	-----	0	-----	-----	-----	-----
7500 textile products	3	0	0	2	0	-----	0	1
7600 rubber & plastic pr.	8	2	0	1	0	0	6	0
7900 manufac. prod. nec	4	0	0	2	0	0	1	0
<b>Total unknown or not elsewhere classified</b>	<b>25</b>	<b>0</b>	<b>-----</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>22</b>	<b>1</b>
9900 unknown or nec	25	0	-----	0	0	1	22	1
<b>Ton-miles (x1000) Foreign &amp; Canadian</b>	<b>629,493</b>	<b>15,353</b>	<b>1,676</b>	<b>41,652</b>	<b>76,158</b>	<b>28,657</b>	<b>294,985</b>	<b>171,013</b>

Commodity	Total	Domestic					
		Lakewise		Internal			
		Receipts	Shipments	Through Upbound	Through Downbnd	Outbound Upbound	Through Downbnd
<b>Total, all commodities</b>	<b>48,419</b>	<b>13,356</b>	<b>450</b>	<b>5,960</b>	<b>28,558</b>	<b>2</b>	<b>1</b>
<b>Total coal</b>	<b>8,737</b>	<b>1,800</b>	<b>-----</b>	<b>5,388</b>	<b>1,549</b>	<b>-----</b>	<b>-----</b>
1100 coal lignite	8,737	1,800	-----	5,388	1,549	-----	-----

**DETROIT RIVER, MI**  
**Freight Traffic, 1990 - continued**  
 (thousand tons)

Commodity	Total	Domestic						Internal Outbound Upbound	Internal Through Downbnd	Internal Intra Upbound			
		Lakewise			Internal								
		Receipts	Shipments	Through	Upbound	Downbnd	Upbound						
<b>Total petroleum and petroleum products</b>	<b>824</b>	<b>230</b>	<b>443</b>	<b>20</b>	<b>38</b>		<b>2</b>	-----	-----	<b>91</b>			
<b>Subtotal petroleum products</b>	<b>824</b>	<b>230</b>	<b>443</b>	<b>20</b>	<b>38</b>		<b>2</b>	-----	-----	<b>91</b>			
2211 gasoline	35	-----	27	9	-----		-----	-----	-----	-----			
2330 distillate fuel oil	116	8	91	7	-----		-----	-----	-----	10			
2340 residual fuel oil	140	29	44	4	-----		2	-----	-----	60			
2430 asphalt, tar & pitch	514	193	281	-----	20		-----	-----	-----	21			
2540 petroleum coke	18	-----	-----	18	-----		-----	-----	-----	-----			
<b>Total chemicals and related products</b>	<b>8</b>	-----	<b>8</b>	-----	-----		-----	-----	-----	-----			
<b>Subtotal other chemicals and related products</b>	<b>8</b>	-----	<b>8</b>	-----	-----		-----	-----	-----	-----			
3275 inorg. elem., oxides, & halogen salts	8	-----	8	-----	-----		-----	-----	-----	-----			
<b>Total crude materials, inedible except fuels</b>	<b>36,840</b>	<b>10,819</b>	-----	<b>552</b>	<b>25,469</b>		-----	-----	-----	-----			
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>8,796</b>	<b>3,142</b>	-----	<b>20</b>	<b>5,634</b>		-----	-----	-----	-----			
4322 limestone	7,922	2,832	-----	3	5,086		-----	-----	-----	-----			
4323 gypsum	661	299	-----	-----	362		-----	-----	-----	-----			
4331 sand & gravel	213	11	-----	17	186		-----	-----	-----	-----			
<b>Subtotal iron ore and scrap</b>	<b>27,320</b>	<b>7,490</b>	-----	<b>21</b>	<b>19,809</b>		-----	-----	-----	-----			
4410 iron ore	27,320	7,490	-----	21	19,809		-----	-----	-----	-----			
<b>Subtotal sulphur, clay and salt</b>	<b>25</b>	-----	-----	-----	<b>25</b>		-----	-----	-----	-----			
4782 clay & refrac. mat.	25	-----	-----	-----	25		-----	-----	-----	-----			
<b>Subtotal slag</b>	<b>94</b>	<b>14</b>	-----	<b>80</b>	-----		-----	-----	-----	-----			
4860 slag	94	14	-----	80	-----		-----	-----	-----	-----			
<b>Subtotal other non-metal. min.</b>	<b>604</b>	<b>173</b>	-----	<b>431</b>	-----		-----	-----	-----	-----			
4900 non-metal. min. nec	604	173	-----	431	-----		-----	-----	-----	-----			
<b>Total primary manufactured goods</b>	<b>1,100</b>	<b>506</b>	-----	-----	<b>593</b>		-----	-----	-----	-----			
<b>Subtotal lime, cement and glass</b>	<b>1,100</b>	<b>506</b>	-----	-----	<b>593</b>		-----	-----	-----	-----			
5220 cement & concrete	1,100	506	-----	-----	593		-----	-----	-----	-----			
<b>Total food and farm products</b>	<b>909</b>	-----	-----	-----	<b>909</b>		-----	-----	-----	-----			
<b>Subtotal grain</b>	<b>909</b>	-----	-----	-----	<b>909</b>		-----	-----	-----	-----			
6241 wheat	909	-----	-----	-----	909		-----	-----	-----	-----			

**DETROIT RIVER, MI**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) | | | | | | |

Commodity	Total	Domestic					
		Lakewise			Internal		
		Receipts	Shipments	Through Upbound	Outbound	Through Downbnd	Intra Upbound
<b>Total all manufactured equipment, machinery and products</b>	<b>1</b>	-----	-----	-----	-----	-----	<b>1</b> -----
7110 machinery (not elec)	1	-----	-----	-----	-----	-----	1 -----
Ton-miles (x1000)	1,251,839		7,695	184,747	885,303	26	31
Domestic		173,919					118
Tons All Traffic (x1000)			69,636				
Ton-miles All Traffic (x1000)			1,881,342				

DETROIT HARBOR, MI (INCLUDED IN PORT OF DETROIT)

Section Included: U.S. bank of Detroit River from Lake St. Clair to western extreme of Zug Island. Controlling Depth: Channel north of Belle Isle 21 feet, remainder of river 25-28.5 feet. Project Depth: 28.5 feet except channel north of Belle Isle, 21 feet.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	5,143	1986	5,084
1982	4,323	1987	5,073
1983	5,016	1988	5,677
1984	5,530	1989	9,900
1985	5,041	1990	7,553

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Lakewise Receipts	Internal Receipts
<b>Total, all commodities</b>	<b>7,553</b>	<b>255</b>	<b>44</b>	<b>1,585</b>	<b>718</b>	<b>4,950</b>	<b>4,887</b>	<b>62</b>
<b>Total coal</b>	<b>753</b>	-----	-----	<b>75</b>	<b>53</b>	<b>625</b>	<b>625</b>	-----
1100 coal lignite	625	-----	-----	0	-----	625	625	-----
1200 coal coke	128	-----	-----	75	53	-----	-----	-----
<b>Total petroleum and petroleum products</b>	<b>245</b>	-----	-----	<b>18</b>	<b>157</b>	<b>70</b>	<b>7</b>	<b>62</b>
<b>Subtotal petroleum products</b>	<b>245</b>	-----	-----	<b>18</b>	<b>157</b>	<b>70</b>	<b>7</b>	<b>62</b>
2211 gasoline	10	-----	-----	10	-----	-----	-----	-----
2221 kerosene	15	-----	-----	-----	15	-----	-----	-----
2330 distillate fuel oil	20	-----	-----	8	-----	12	2	10
2340 residual fuel oil	143	-----	-----	-----	85	58	5	52

DETROIT HARBOR, MI (INCLUDED IN PORT OF DETROIT)  
Freight Traffic, 1990 - continued  
(thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Lakewise	Internal
						Receipts	Receipts	
2540 petroleum coke	57	-----	-----	-----	57	-----	-----	-----
<b>Total chemicals and related products</b>	<b>140</b>	<b>2</b>	<b>2</b>	<b>33</b>	<b>102</b>	-----	-----	-----
<b>Subtotal fertilizers</b>	<b>94</b>	-----	-----	-----	<b>94</b>	-----	-----	-----
3110 nitrogenous fert.	11	-----	-----	-----	11	-----	-----	-----
3120 phosphatic fert.	5	-----	-----	-----	5	-----	-----	-----
3130 potassic fert.	0	-----	-----	-----	0	-----	-----	-----
3190 fert. & mixes nec	78	-----	-----	-----	78	-----	-----	-----
<b>Subtotal other chemicals and related products</b>	<b>46</b>	<b>2</b>	<b>2</b>	<b>33</b>	<b>8</b>	-----	-----	-----
3211 acyclic hydrocarbons	0	-----	-----	-----	0	-----	-----	-----
3219 other hydrocarbons	7	0	0	-----	7	-----	-----	-----
3220 alcohols	0	0	-----	-----	-----	-----	-----	-----
3230 carboxylic acids	0	0	0	-----	0	-----	-----	-----
3240 nitrogen func. comp.	0	-----	0	-----	0	-----	-----	-----
3250 organo-inorgan. comp	0	0	0	-----	-----	-----	-----	-----
3260 organic comp. nec	0	0	0	-----	-----	-----	-----	-----
3273 ammonia	0	-----	-----	0	-----	-----	-----	-----
3274 sodium hydroxide	0	0	-----	-----	-----	-----	-----	-----
3275 inorg. elem.,oxides, & halogen salts	1	0	-----	1	0	-----	-----	-----
3276 metallic salts	7	0	0	7	0	-----	-----	-----
3279 inorganic chem. nec	1	0	-----	1	0	-----	-----	-----
3282 pigments & paints	0	0	0	-----	-----	-----	-----	-----
3283 coloring mat. nec	0	-----	-----	0	-----	-----	-----	-----
3284 medicines	0	0	0	-----	0	-----	-----	-----
3285 perfumes & cleansers	1	0	1	-----	0	-----	-----	-----
3286 plastics	1	0	1	0	0	-----	-----	-----
3291 pesticides	0	0	-----	0	0	-----	-----	-----
3292 starches,gluten,glue	1	1	-----	0	0	-----	-----	-----
3297 chemical additives	0	-----	0	-----	0	-----	-----	-----
3298 wood & resin chem.	0	-----	-----	0	-----	-----	-----	-----
3299 chem. products nec	26	0	0	25	0	-----	-----	-----
<b>Total crude materials, inedible except fuels</b>	<b>5,250</b>	<b>1</b>	<b>39</b>	<b>1,124</b>	<b>337</b>	<b>3,748</b>	<b>3,748</b>	-----
<b>Subtotal forest products, wood and chips</b>	<b>6</b>	<b>0</b>	-----	<b>6</b>	<b>0</b>	-----	-----	-----
4189 lumber	6	0	-----	6	0	-----	-----	-----
<b>Subtotal pulp and waste paper</b>	<b>5</b>	-----	<b>2</b>	<b>0</b>	<b>3</b>	-----	-----	-----
4225 pulp & waste paper	5	-----	2	0	3	-----	-----	-----
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>1,094</b>	<b>0</b>	-----	<b>173</b>	<b>921</b>	<b>921</b>	-----	-----
4310 building stone	0	0	-----	-----	-----	-----	-----	-----
4322 limestone	921	-----	-----	-----	921	921	921	921
4323 gypsum	0	-----	-----	0	-----	-----	-----	-----
4331 sand & gravel	173	0	-----	173	-----	-----	-----	-----
<b>Subtotal iron ore and scrap</b>	<b>3,741</b>	<b>1</b>	<b>37</b>	<b>740</b>	<b>137</b>	<b>2,827</b>	<b>2,827</b>	-----
4410 iron ore	3,665	-----	-----	705	133	2,827	2,827	-----
4420 iron & steel scrap	77	1	37	35	3	-----	-----	-----

DETROIT HARBOR, MI (INCLUDED IN PORT OF DETROIT)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Lakewise	Internal
<b>Subtotal non-ferrous ores and scrap</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	-----	-----	-----
4630 copper ore	0	-----	0	-----	-----	-----	-----	-----
4650 aluminum ore	0	0	-----	-----	-----	-----	-----	-----
4680 non-ferrous scrap	1	-----	-----	0	0	-----	-----	-----
<b>Subtotal sulphur, clay and salt</b>	<b>1</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>1</b>	-----	-----	-----
4782 clay & refrac. mat.	1	0	-----	-----	1	-----	-----	-----
<b>Subtotal slag</b>	<b>163</b>	-----	-----	<b>162</b>	<b>1</b>	-----	-----	-----
4860 slag	163	-----	-----	162	1	-----	-----	-----
<b>Subtotal other non-metal. min.</b>	<b>238</b>	-----	-----	<b>215</b>	<b>23</b>	-----	-----	-----
4900 non-metal. min. nec	238	-----	-----	215	23	-----	-----	-----
<b>Total primary manufactured goods</b>	<b>897</b>	<b>244</b>	<b>0</b>	<b>90</b>	<b>55</b>	<b>506</b>	<b>506</b>	-----
<b>Subtotal paper products</b>	<b>18</b>	<b>0</b>	<b>-----</b>	<b>17</b>	<b>0</b>	-----	-----	-----
5110 newsprint	15	-----	-----	15	-----	-----	-----	-----
5120 paper & paperboard	3	0	-----	2	0	-----	-----	-----
5190 paper products nec	0	0	-----	0	0	-----	-----	-----
<b>Subtotal lime, cement and glass</b>	<b>630</b>	<b>2</b>	<b>-----</b>	<b>70</b>	<b>52</b>	<b>506</b>	<b>506</b>	-----
5220 cement & concrete	628	-----	-----	70	52	506	506	-----
5240 glass & glass prod.	0	0	-----	0	0	-----	-----	-----
5290 misc. mineral prod.	2	2	-----	0	0	-----	-----	-----
<b>Subtotal primary iron and steel products</b>	<b>244</b>	<b>240</b>	<b>0</b>	<b>1</b>	<b>3</b>	-----	-----	-----
5315 ferro alloys	4	4	-----	-----	-----	-----	-----	-----
5320 i&s primary forms	14	14	-----	-----	-----	-----	-----	-----
5330 i&s plates & sheets	150	147	0	0	3	-----	-----	-----
5360 i&s bars & shapes	70	70	-----	1	0	-----	-----	-----
5370 i&s pipe & tube	4	4	-----	-----	0	-----	-----	-----
5390 primary i&s nec	0	0	0	-----	0	-----	-----	-----
<b>Subtotal primary non-ferrous metal products</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	-----	-----	-----
5421 copper	0	0	-----	-----	0	-----	-----	-----
5422 aluminum	0	0	0	0	0	-----	-----	-----
5429 smelted prod. nec	1	1	-----	-----	-----	-----	-----	-----
5480 fab. metal products	1	0	0	0	0	-----	-----	-----
<b>Subtotal primary wood products</b>	<b>2</b>	<b>0</b>	<b>-----</b>	<b>2</b>	-----	-----	-----	-----
5540 primary wood prod.	2	0	-----	2	-----	-----	-----	-----
<b>Total food and farm products</b>	<b>14</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>11</b>	-----	-----	-----
<b>Subtotal grain</b>	<b>0</b>	-----	-----	<b>0</b>	<b>0</b>	-----	-----	-----
6442 rice	0	-----	-----	0	0	-----	-----	-----
6445 oats	0	-----	-----	0	0	-----	-----	-----
<b>Subtotal oilseeds</b>	<b>0</b>	<b>0</b>	<b>-----</b>	<b>0</b>	<b>0</b>	-----	-----	-----
6521 peanuts	0	-----	-----	0	0	-----	-----	-----

DETROIT HARBOR, MI (INCLUDED IN PORT OF DETROIT)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Lakewise	Internal
6590 oilseeds nec	0	-----	0	-----	-----	-----	-----	-----
<b>Subtotal vegetable products</b>	<b>1</b>	<b>0</b>	<b>1</b>	-----	0	-----	-----	-----
6654 vegetables & prod.	1	0	1	-----	0	-----	-----	-----
<b>Subtotal processed grain and animal feed</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	-----	-----	-----
6747 grain mill products	0	0	-----	-----	0	-----	-----	-----
6782 animal feed, prep.	0	-----	0	0	0	-----	-----	-----
<b>Subtotal other agricultural products</b>	<b>12</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>11</b>	-----	-----	-----
6811 meat, fresh, frozen	0	0	-----	-----	-----	-----	-----	-----
6822 dairy products	0	-----	-----	0	-----	-----	-----	-----
6835 fish, prepared	0	0	-----	-----	-----	-----	-----	-----
6857 fruit & nuts nec	0	-----	-----	0	-----	-----	-----	-----
6858 fruit juices	1	0	0	-----	0	-----	-----	-----
6865 molasses	1	-----	-----	-----	1	-----	-----	-----
6885 alcoholic beverages	10	1	-----	0	9	-----	-----	-----
6888 water & ice	0	0	-----	-----	-----	-----	-----	-----
6889 food products nec	0	0	-----	0	-----	-----	-----	-----
6899 farm products nec	0	-----	0	-----	-----	-----	-----	-----
<b>Total all manufactured equipment, machinery and products</b>	<b>251</b>	<b>6</b>	<b>2</b>	<b>241</b>	<b>1</b>	-----	-----	-----
7110 machinery (not elec)	104	1	1	101	0	-----	-----	-----
7120 electrical machinery	1	1	0	0	0	-----	-----	-----
7210 vehicles & parts	144	3	0	140	0	-----	-----	-----
7220 aircraft & parts	0	-----	0	0	0	-----	-----	-----
7230 ships & boats	0	-----	0	-----	0	-----	-----	-----
7400 manufac. wood prod.	0	0	-----	-----	-----	-----	-----	-----
7500 textile products	0	0	-----	0	0	-----	-----	-----
7600 rubber & plastic pr.	1	1	0	0	0	-----	-----	-----
7900 manufac. prod. nec	1	0	0	0	0	-----	-----	-----
<b>Total unknown or not elsewhere classified</b>	<b>3</b>	<b>0</b>	<b>-----</b>	<b>2</b>	<b>1</b>	-----	-----	-----
9900 unknown or nec	3	0	-----	2	1	-----	-----	-----

## ROUGE RIVER, MI (INCLUDED IN PORT OF DETROIT)

Section Included: From the mouth of the Short Cut Canal to the Ford Motor Company. Controlling Depth: 20 feet for a minimum width of 100 feet from the mouth of the short cut to Dix Avenue Bridge, with the exception of some shoal areas, and 20 feet in the Turning Basin, except near the shore. Project Depth: 21.0 feet from mouth of Short Cut Canal to and including the Turning Basin in main channel.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	9,634	1986	8,191
1982	7,469	1987	7,162
1983	8,033	1988	7,522
1984	9,127	1989	8,044
1985	8,729	1990	7,960

Freight Traffic, 1990  
(thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
<b>Total, all commodities</b>	<b>714</b>	<b>286</b>	<b>14</b>	<b>333</b>	<b>81</b>
<b>Total coal</b>	<b>33</b>	-----	-----	<b>31</b>	<b>2</b>
1200 coal coke	33	-----	-----	31	2
<b>Total petroleum and petroleum products</b>	<b>61</b>	-----	-----	<b>36</b>	<b>25</b>
<b>Subtotal petroleum products</b>	<b>61</b>	-----	-----	<b>36</b>	<b>25</b>
2330 distillate fuel oil	33	-----	-----	31	2
2340 residual fuel oil	2	-----	-----	2	-----
2430 asphalt, tar & pitch	3	-----	-----	3	-----
2540 petroleum coke	23	-----	-----	-----	23
<b>Total chemicals and related products</b>	<b>1</b>	<b>0</b>	-----	<b>0</b>	-----
<b>Subtotal fertilizers</b>	<b>0</b>	-----	-----	<b>0</b>	-----
3190 fert. & mixes nec	0	-----	-----	0	-----
<b>Subtotal other chemicals and related products</b>	<b>0</b>	<b>0</b>	-----	-----	-----
3220 alcohols	0	0	-----	-----	-----
3230 carboxylic acids	0	0	-----	-----	-----
3284 medicines	0	0	-----	-----	-----
3286 plastics	0	0	-----	-----	-----
<b>Total crude materials, inedible except fuels</b>	<b>334</b>	-----	<b>14</b>	<b>266</b>	<b>54</b>
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>50</b>	-----	-----	-----	<b>50</b>
4322 limestone	50	-----	-----	-----	50
<b>Subtotal iron ore and scrap</b>	<b>129</b>	-----	<b>14</b>	<b>112</b>	<b>4</b>
4410 iron ore	83	-----	-----	83	-----
4420 iron & steel scrap	46	-----	14	29	4
<b>Subtotal slag</b>	<b>25</b>	-----	-----	<b>25</b>	<b>0</b>
4860 slag	25	-----	-----	25	0
<b>Subtotal other non-metal. min.</b>	<b>129</b>	-----	-----	<b>129</b>	-----
4900 non-metal. min. nec	129	-----	-----	129	-----

ROUGE RIVER, MI (INCLUDED IN PORT OF DETROIT)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
<b>Total primary manufactured goods</b>	<b>283</b>	<b>283</b>	-----	-----	-----
<b>Subtotal paper products</b>	<b>0</b>	<b>0</b>	-----	-----	-----
5120 paper & paperboard	0	0	-----	-----	-----
<b>Subtotal primary iron and steel products</b>	<b>282</b>	<b>282</b>	-----	-----	-----
5315 ferro alloys	9	9	-----	-----	-----
5320 i&s primary forms	25	25	-----	-----	-----
5330 i&s plates & sheets	218	218	-----	-----	-----
5360 i&s bars & shapes	22	22	-----	-----	-----
5370 i&s pipe & tube	8	8	-----	-----	-----
5390 primary i&s nec	0	0	-----	-----	-----
<b>Subtotal primary non-ferrous metal products</b>	<b>1</b>	<b>1</b>	-----	-----	-----
5422 aluminum	0	0	-----	-----	-----
5429 smelted prod. nec	1	1	-----	-----	-----
5480 fab. metal products	0	0	-----	-----	-----
<b>Total food and farm products</b>	<b>1</b>	<b>1</b>	-----	-----	<b>0</b>
<b>Subtotal oilseeds</b>	<b>0</b>	<b>0</b>	-----	-----	-----
6522 soybeans	0	0	-----	-----	-----
<b>Subtotal vegetable products</b>	<b>0</b>	<b>0</b>	-----	-----	-----
6654 vegetables & prod.	0	0	-----	-----	-----
<b>Subtotal other agricultural products</b>	<b>1</b>	<b>0</b>	-----	-----	<b>0</b>
6858 fruit juices	0	0	-----	-----	-----
6885 alcoholic beverages	0	0	-----	-----	0
6889 food products nec	0	0	-----	-----	-----
<b>Total all manufactured equipment, machinery and products</b>	<b>2</b>	<b>2</b>	-----	-----	-----
7110 machinery (not elec)	1	1	-----	-----	-----
7120 electrical machinery	0	0	-----	-----	-----
7210 vehicles & parts	0	0	-----	-----	-----
7600 rubber & plastic pr.	1	1	-----	-----	-----
7900 manufac. prod. nec	0	0	-----	-----	-----
<b>Total unknown or not elsewhere classified</b>	<b>0</b>	<b>0</b>	-----	-----	-----
9900 unknown or nec	0	0	-----	-----	-----

Commodity	Total	Domestic				
		Lakewise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
<b>Total, all commodities</b>	<b>7,246</b>	<b>6,720</b>	<b>440</b>	<b>6</b>	<b>57</b>	<b>23</b>
<b>Total coal</b>	<b>711</b>	<b>711</b>	-----	-----	-----	-----
1100 coal lignite	711	711	-----	-----	-----	-----

ROUGE RIVER, MI (INCLUDED IN PORT OF DETROIT)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Total	Domestic					
		Lakewise		Internal			Intraport
		Receipts	Shipments	Receipts	Shipments		
<b>Total petroleum and petroleum products</b>	<b>713</b>	<b>195</b>	<b>432</b>	<b>6</b>	<b>57</b>	<b>23</b>	
<b>Subtotal petroleum products</b>	<b>713</b>	<b>195</b>	<b>432</b>	<b>6</b>	<b>57</b>	<b>23</b>	
2211 gasoline	17	-----	17	-----	-----	-----	
2330 distillate fuel oil	101	1	91	-----	8	0	
2340 residual fuel oil	107	7	43	6	49	2	
2430 asphalt, tar & pitch	488	186	281	-----	-----	21	
<b>Total chemicals and related products</b>	<b>8</b>	<b>-----</b>	<b>8</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	
<b>Subtotal other chemicals and related products</b>	<b>8</b>	<b>-----</b>	<b>8</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	
3275 inorg. elem.,oxides, & halogen salts	8	-----	8	-----	-----	-----	
<b>Total crude materials, inedible except fuels</b>	<b>5,814</b>	<b>5,814</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>2,147</b>	<b>2,147</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	
4322 limestone	1,837	1,837	-----	-----	-----	-----	
4323 gypsum	299	299	-----	-----	-----	-----	
4331 sand & gravel	11	11	-----	-----	-----	-----	
<b>Subtotal iron ore and scrap</b>	<b>3,491</b>	<b>3,491</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	
4410 iron ore	3,491	3,491	-----	-----	-----	-----	
<b>Subtotal slag</b>	<b>14</b>	<b>14</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	
4860 slag	14	14	-----	-----	-----	-----	
<b>Subtotal other non-metal. min.</b>	<b>161</b>	<b>161</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	
4900 non-metal. min. nec	161	161	-----	-----	-----	-----	

## ECORSE, MI (INCLUDED IN PORT OF DETROIT)

Section Included: U.S. shore of Detroit River from Great Lakes Ave. to Ecorse River. Controlling Depth: 26.5 feet.  
Project Depth: 28.5 feet.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	183	1986	400
1982	153	1987	185
1983	390	1988	483
1984	554	1989	641
1985	440	1990	268

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Foreign		Imports	Domestic			Internal Shipments		
		Imports	Exports		Total	Lakewise	Shipments			
						Receipts				
<b>Total, all commodities</b>	<b>268</b>	<b>191</b>	<b>17</b>		<b>7</b>	<b>53</b>	<b>40</b>	<b>1</b>		
<b>Total petroleum and petroleum products</b>	<b>46</b>	-----	-----		<b>4</b>	<b>42</b>	<b>28</b>	<b>1</b>		
<b>Subtotal petroleum products</b>	<b>46</b>	-----	-----		<b>4</b>	<b>42</b>	<b>28</b>	<b>1</b>		
2330 distillate fuel oil	6	-----	-----			<b>6</b>	<b>4</b>	<b>2</b>		
2340 residual fuel oil	28	-----	-----			<b>28</b>	<b>17</b>	<b>1</b>		
2430 asphalt, tar & pitch	11	-----	-----		<b>4</b>	<b>7</b>	<b>7</b>	<b>11</b>		
<b>Total chemicals and related products</b>	<b>0</b>	<b>0</b>	<b>0</b>		-----	-----	-----	-----		
<b>Subtotal other chemicals and related products</b>	<b>0</b>	<b>0</b>	<b>0</b>		-----	-----	-----	-----		
3219 other hydrocarbons	0	0	0		-----	-----	-----	-----		
3220 alcohols	0	0	0		-----	-----	-----	-----		
3250 organo-inorgan. comp	0	-----	0		-----	-----	-----	-----		
3275 inorg. elem., oxides, & halogen salts	0	-----	0		-----	-----	-----	-----		
3299 chem. products nec	0	-----	0		-----	-----	-----	-----		
<b>Total crude materials, inedible except fuels</b>	<b>30</b>	-----	<b>16</b>	<b>3</b>	<b>12</b>	<b>12</b>	-----	-----		
<b>Subtotal forest products, wood and chips</b>	<b>0</b>	-----	<b>0</b>		-----	-----	-----	-----		
4189 lumber	0	-----	0		-----	-----	-----	-----		
<b>Subtotal pulp and waste paper</b>	<b>0</b>	-----	<b>0</b>		-----	-----	-----	-----		
4225 pulp & waste paper	0	-----	0		-----	-----	-----	-----		
<b>Subtotal iron ore and scrap</b>	<b>16</b>	-----	<b>16</b>		-----	-----	-----	-----		
4420 iron & steel scrap	16	-----	16		-----	-----	-----	-----		
<b>Subtotal other non-metal. min.</b>	<b>14</b>	-----	<b>3</b>	<b>12</b>	<b>12</b>	-----	-----	-----		
4900 non-metal. min. nec	14	-----	3	12	12	-----	-----	-----		

ECORSE, MI (INCLUDED IN PORT OF DETROIT)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian Imports	Domestic		
		Imports	Exports		Total Receipts	Lakewise Shipments	Internal Shipments
<b>Total primary manufactured goods</b>	<b>191</b>	<b>190</b>	<b>1</b>	-----	-----	-----	-----
<b>Subtotal paper products</b>	0	0	-----	-----	-----	-----	-----
5120 paper & paperboard	0	0	-----	-----	-----	-----	-----
<b>Subtotal lime, cement and glass</b>	0	0	0	-----	-----	-----	-----
5240 glass & glass prod.	0	-----	0	-----	-----	-----	-----
5290 misc. mineral prod.	0	0	0	-----	-----	-----	-----
<b>Subtotal primary Iron and steel products</b>	<b>190</b>	<b>190</b>	<b>-----</b>	-----	-----	-----	-----
5315 ferro alloys	7	7	-----	-----	-----	-----	-----
5320 i&s primary forms	0	0	-----	-----	-----	-----	-----
5330 i&s plates & sheets	167	167	-----	-----	-----	-----	-----
5360 i&s bars & shapes	15	15	-----	-----	-----	-----	-----
5370 i&s pipe & tube	2	2	-----	-----	-----	-----	-----
5390 primary i&s nec	0	0	-----	-----	-----	-----	-----
<b>Subtotal primary non-ferrous metal products</b>	0	0	0	-----	-----	-----	-----
5429 smelted prod. nec	0	0	-----	-----	-----	-----	-----
5480 fab. metal products	0	0	0	-----	-----	-----	-----
<b>Subtotal primary wood products</b>	1	-----	1	-----	-----	-----	-----
5540 primary wood prod.	1	-----	1	-----	-----	-----	-----
<b>Total food and farm products</b>	0	0	0	-----	-----	-----	-----
<b>Subtotal processed grain and animal feed</b>	0	-----	0	-----	-----	-----	-----
6782 animal feed, prep.	0	-----	0	-----	-----	-----	-----
<b>Subtotal other agricultural products</b>	0	0	0	-----	-----	-----	-----
6857 fruit & nuts nec	0	-----	0	-----	-----	-----	-----
6885 alcoholic beverages	0	0	-----	-----	-----	-----	-----
<b>Total all manufactured equipment, machinery and products</b>	1	1	0	0	-----	-----	-----
7110 machinery (not elec)	1	1	0	-----	-----	-----	-----
7120 electrical machinery	0	0	0	-----	-----	-----	-----
7210 vehicles & parts	0	0	0	-----	-----	-----	-----
7230 ships & boats	0	-----	0	-----	-----	-----	-----
7500 textile products	0	-----	0	-----	-----	-----	-----
7600 rubber & plastic pr.	0	0	0	-----	-----	-----	-----
7900 manufac. prod. nec	0	-----	0	-----	-----	-----	-----

## TRENTON, MI (INCLUDED IN PORT OF DETROIT)

Section Included: U.S. shore of Detroit River from foot of Sibley Road to foot of Parkway Drive. Controlling and Project Depths: 28 feet.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	2,570	1986	1,346
1982	1,105	1987	1,677
1983	1,396	1988	1,654
1984	2,084	1989	2,043
1985	1,298	1990	1,885

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Canadian		Domestic		
		Imports	Exports	Total	Lakewise	Shipments
				Receipts	Shipments	
<b>Total, all commodities</b>	<b>1,885</b>	<b>294</b>	<b>9</b>	<b>1,583</b>	<b>1,573</b>	<b>10</b>
<b>Total coal</b>	<b>328</b>	-----	-----	<b>328</b>	<b>328</b>	-----
1100 coal lignite	328	-----	-----	328	328	-----
<b>Total petroleum and petroleum products</b>	<b>60</b>	<b>41</b>	<b>9</b>	<b>10</b>	-----	<b>10</b>
<b>Subtotal petroleum products</b>	<b>60</b>	<b>41</b>	<b>9</b>	<b>10</b>	-----	<b>10</b>
2211 gasoline	31	21	-----	10	-----	10
2330 distillate fuel oil	9	9	-----	10	-----	10
2340 residual fuel oil	11	11	-----	-----	-----	-----
2540 petroleum coke	9	-----	9	-----	-----	-----
<b>Total crude materials, inedible except fuels</b>	<b>1,498</b>	<b>253</b>	-----	<b>1,245</b>	<b>1,245</b>	-----
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>74</b>	-----	-----	<b>74</b>	<b>74</b>	-----
4322 limestone	74	-----	-----	74	74	-----
<b>Subtotal iron ore and scrap</b>	<b>1,424</b>	<b>253</b>	-----	<b>1,172</b>	<b>1,172</b>	-----
4410 iron ore	1,424	253	-----	1,172	1,172	-----

## PORT OF DETROIT, MI

Section Included: Detroit Harbor, Rouge River, Ecorse, Wyandotte, Riverview and Trenton. Controlling and Project Depths: See aforementioned projects.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	17,839	1986	15,219
1982	13,176	1987	14,130
1983	14,955	1988	15,331
1984	17,531	1989	20,701
1985	15,612	1990	17,735

Freight Traffic, 1990  
(thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
<b>Total, all commodities</b>	<b>3,835</b>	<b>732</b>	<b>75</b>	<b>2,219</b>	<b>807</b>
<b>Total coal</b>	<b>161</b>	-----	-----	<b>107</b>	<b>55</b>
1100 coal lignite	0	-----	-----	0	-----
1200 coal coke	161	-----	-----	106	55
<b>Total petroleum and petroleum products</b>	<b>291</b>	-----	-----	<b>100</b>	<b>191</b>
<b>Subtotal petroleum products</b>	<b>291</b>	-----	-----	<b>100</b>	<b>191</b>
2211 gasoline	32	-----	-----	32	-----
2221 kerosene	15	-----	-----	-----	15
2330 distillate fuel oil	49	-----	-----	47	2
2340 residual fuel oil	99	-----	-----	13	85
2430 asphalt, tar & pitch	7	-----	-----	7	-----
2540 petroleum coke	89	-----	-----	-----	89
<b>Total chemicals and related products</b>	<b>141</b>	<b>3</b>	<b>2</b>	<b>34</b>	<b>102</b>
<b>Subtotal fertilizers</b>	<b>95</b>	-----	-----	0	<b>94</b>
3110 nitrogenous fert.	11	-----	-----	-----	11
3120 phosphatic fert.	5	-----	-----	-----	5
3130 potassic fert.	0	-----	-----	-----	0
3190 fert. & mixes nec	78	-----	-----	0	78
<b>Subtotal other chemicals and related products</b>	<b>46</b>	<b>3</b>	<b>2</b>	<b>33</b>	<b>8</b>
3211 acyclic hydrocarbons	0	-----	-----	-----	0
3219 other hydrocarbons	7	0	0	-----	7
3220 alcohols	0	0	-----	-----	-----
3230 carboxylic acids	0	0	0	-----	0
3240 nitrogen func. comp.	0	0	0	-----	0
3250 organo-inorgan. comp	0	0	0	-----	-----
3260 organic comp. nec	0	0	0	-----	-----
3273 ammonia	0	-----	-----	0	-----
3274 sodium hydroxide	0	0	-----	-----	-----
3275 inorg. elem., oxides, & halogen salts	1	0	0	1	0
3276 metallic salts	7	0	0	7	0
3279 inorganic chem. nec	1	0	-----	1	0
3282 pigments & paints	0	0	0	-----	-----
3283 coloring mat. nec	0	-----	-----	-----	0
3284 medicines	0	0	0	-----	0

**PORT OF DETROIT, MI**  
**Freight Traffic, 1990 - continued**  
 (thousand tons)

	Commodity	Total	Foreign		Canadian	
			Imports	Exports	Imports	Exports
3285	perfumes & cleansers	1	0	1	-----	0
3286	plastics	1	1	1	0	0
3291	pesticides	0	0	-----	0	0
3292	starches,gluten,glue	1	1	-----	-----	0
3297	chemical additives	0	-----	0	-----	-----
3298	wood & resin chem.	0	-----	-----	-----	0
3299	chem. products nec	26	0	0	25	0
<b>Total crude materials, Inedible except fuels</b>		<b>2,106</b>	<b>1</b>	<b>69</b>	<b>1,645</b>	<b>391</b>
<b>Subtotal forest products, wood and chips</b>		<b>6</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0</b>
4189	lumber	6	0	0	6	0
<b>Subtotal pulp and waste paper</b>		<b>5</b>	<b>-----</b>	<b>2</b>	<b>0</b>	<b>3</b>
4225	pulp & waste paper	5	-----	2	0	3
<b>Subtotal soil, sand, gravel, rock and stone</b>		<b>223</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>223</b>
4310	building stone	0	0	-----	-----	-----
4322	limestone	50	-----	-----	-----	50
4323	gypsum	0	-----	-----	-----	0
4331	sand & gravel	173	0	-----	-----	173
<b>Subtotal iron ore and scrap</b>		<b>1,312</b>	<b>1</b>	<b>67</b>	<b>1,105</b>	<b>140</b>
4410	iron ore	1,174	-----	-----	1,041	133
4420	iron & steel scrap	138	1	67	64	7
<b>Subtotal non-ferrous ores and scrap</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
4630	copper ore	0	-----	0	-----	-----
4650	aluminum ore	0	0	-----	-----	-----
4680	non-ferrous scrap	1	-----	-----	0	0
<b>Subtotal sulphur, clay and salt</b>		<b>1</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>1</b>
4782	clay & refrac. mat.	1	0	-----	-----	1
<b>Subtotal slag</b>		<b>188</b>	<b>-----</b>	<b>-----</b>	<b>187</b>	<b>1</b>
4860	slag	188	-----	-----	187	1
<b>Subtotal other non-metal. min.</b>		<b>369</b>	<b>-----</b>	<b>-----</b>	<b>347</b>	<b>23</b>
4900	non-metal. min. nec	369	-----	-----	347	23
<b>Total primary manufactured goods</b>		<b>864</b>	<b>717</b>	<b>1</b>	<b>90</b>	<b>55</b>
<b>Subtotal paper products</b>		<b>18</b>	<b>1</b>	<b>-----</b>	<b>17</b>	<b>0</b>
5110	newsprint	15	-----	-----	15	-----
5120	paper & paperboard	3	1	-----	2	0
5190	paper products nec	0	0	-----	-----	0
<b>Subtotal lime, cement and glass</b>		<b>124</b>	<b>2</b>	<b>0</b>	<b>70</b>	<b>52</b>
5220	cement & concrete	122	-----	-----	70	52
5240	glass & glass prod.	0	0	0	0	0
5290	misc. mineral prod.	2	2	0	0	0
<b>Subtotal primary iron and steel products</b>		<b>716</b>	<b>712</b>	<b>0</b>	<b>1</b>	<b>3</b>
5315	ferro alloys	20	20	-----	-----	-----
5320	i&s primary forms	40	40	-----	-----	-----
5330	i&s plates & sheets	535	532	0	0	3
5360	i&s bars & shapes	107	106	-----	1	0
5370	i&s pipe & tube	14	14	-----	-----	0
5390	primary i&s nec	1	1	0	-----	0

**PORT OF DETROIT, MI**  
**Freight Traffic, 1990 - continued**  
 (thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
<b>Subtotal primary non-ferrous metal products</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>
5421 copper	0	20	-----	-----	0
5422 aluminum	0	0	0	0	0
5429 smelted prod. nec	2	2	-----	-----	-----
5480 fab. metal products	1	0	0	0	0
<b>Subtotal primary wood products</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>-----</b>
5540 primary wood prod.	3	0	1	2	-----
<b>Total food and farm products</b>	<b>15</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>11</b>
<b>Subtotal grain</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>0</b>	<b>0</b>
6442 rice	0	-----	-----	-----	0
6445 oats	0	-----	-----	0	-----
<b>Subtotal oilseeds</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-----</b>	<b>0</b>
6521 peanuts	0	-----	-----	-----	0
6522 soybeans	0	0	-----	-----	-----
6590 oilseeds nec	0	-----	0	-----	-----
<b>Subtotal vegetable products</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>-----</b>	<b>0</b>
6654 vegetables & prod.	1	0	1	-----	0
<b>Subtotal processed grain and animal feed</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
6747 grain mill products	0	0	-----	-----	0
6782 animal feed, prep.	0	-----	0	0	0
<b>Subtotal other agricultural products</b>	<b>13</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>11</b>
6811 meat, fresh, frozen	0	0	-----	-----	-----
6822 dairy products	0	-----	-----	-----	0
6835 fish, prepared	0	0	-----	-----	-----
6857 fruit & nuts nec	0	-----	0	-----	0
6858 fruit juices	1	0	0	-----	0
6865 molasses	1	-----	-----	-----	1
6885 alcoholic beverages	11	1	-----	0	9
6888 water & ice	0	0	-----	-----	0
6889 food products nec	0	0	0	-----	0
6899 farm products nec	0	-----	0	-----	-----
<b>Total all manufactured equipment, machinery and products</b>	<b>254</b>	<b>9</b>	<b>2</b>	<b>241</b>	<b>1</b>
7110 machinery (not elec)	106	3	2	101	0
7120 electrical machinery	1	1	0	0	0
7210 vehicles & parts	144	3	0	140	0
7220 aircraft & parts	0	-----	0	0	0
7230 ships & boats	0	-----	0	-----	0
7400 manufac. wood prod.	0	0	-----	-----	0
7500 textile products	0	0	0	-----	0
7600 rubber & plastic pr.	2	2	0	0	0
7900 manufac. prod. nec	1	0	0	0	0
<b>Total unknown or not elsewhere classified</b>	<b>3</b>	<b>0</b>	<b>-----</b>	<b>2</b>	<b>1</b>
9900 unknown or nec	3	0	-----	2	1

PORT OF DETROIT, MI  
Freight Traffic, 1990 - continued  
(thousand tons)

Commodity	Total	Domestic					
		Lakewise		Internal		Receipts	Shipments
		Receipts	Shipments	Receipts	Shipments		
<b>Total, all commodities</b>	<b>13,900</b>	<b>13,356</b>	<b>450</b>	<b>68</b>	<b>2</b>	<b>23</b>	
<b>Total coal</b>	<b>1,800</b>	<b>1,800</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
1100 coal lignite	1,800	1,800	-----	-----	-----	-----	-----
<b>Total petroleum and petroleum products</b>	<b>766</b>	<b>230</b>	<b>443</b>	<b>68</b>	<b>2</b>	<b>23</b>	
<b>Subtotal petroleum products</b>	<b>766</b>	<b>230</b>	<b>443</b>	<b>68</b>	<b>2</b>	<b>23</b>	
2211 gasoline	27	-----	27	-----	-----	-----	-----
2330 distillate fuel oil	109	8	91	10	-----	0	
2340 residual fuel oil	136	29	44	58	2	2	
2430 asphalt, tar & pitch	495	193	281	-----	-----	21	
<b>Total chemicals and related products</b>	<b>8</b>	<b>-----</b>	<b>8</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	
<b>Subtotal other chemicals and related products</b>	<b>8</b>	<b>-----</b>	<b>8</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	
3275 inorg. elem., oxides, & halogen salts	8	-----	8	-----	-----	-----	
<b>Total crude materials, inedible except fuels</b>	<b>10,819</b>	<b>10,819</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>3,142</b>	<b>3,142</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	
4322 limestone	2,832	2,832	-----	-----	-----	-----	
4323 gypsum	299	299	-----	-----	-----	-----	
4331 sand & gravel	11	11	-----	-----	-----	-----	
<b>Subtotal iron ore and scrap</b>	<b>7,490</b>	<b>7,490</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	
4410 iron ore	7,490	7,490	-----	-----	-----	-----	
<b>Subtotal slag</b>	<b>14</b>	<b>14</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	
4860 slag	14	14	-----	-----	-----	-----	
<b>Subtotal other non-metal. min.</b>	<b>173</b>	<b>173</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	
4900 non-metal. min. nec	173	173	-----	-----	-----	-----	
<b>Total primary manufactured goods</b>	<b>506</b>	<b>506</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	
<b>Subtotal lime, cement and glass</b>	<b>506</b>	<b>506</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	
5220 cement & concrete	506	506	-----	-----	-----	-----	

## MONROE HARBOR, MI

Section Included: Channel in Lake Erie and 16,000 feet above Raisin River. Controlling depth: 20 feet to turning basin over a center width of 150 feet; 16.5 feet in turning basin except near the shore; 5.5 feet in 9 foot channel.  
 Project Depth: 21 feet to the Turning Basin; 18 feet in the Turning Basin; 9 feet to lower docks at Monroe.  
 Navigation season: Approximately 20 April to 14 December.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	2,782	1986	623
1982	2,401	1987	1,178
1983	2,570	1988	1,123
1984	2,399	1989	1,490
1985	793	1990	1,585

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Canadian	Domestic
		Imports	Lakewise Receipts
<b>Total, all commodities</b>	<b>1,585</b>	<b>17</b>	<b>1,568</b>
<b>Total coal</b>	<b>1,549</b>	-----	<b>1,549</b>
1100 coal lignite	1,549	-----	1,549
<b>Total petroleum and petroleum products</b>	<b>18</b>	-----	<b>18</b>
<b>Subtotal petroleum products</b>	<b>18</b>	-----	<b>18</b>
2540 petroleum coke	18	-----	18
<b>Total primary manufactured goods</b>	<b>17</b>	<b>17</b>	-----
<b>Subtotal lime, cement and glass</b>	<b>17</b>	<b>17</b>	-----
5220 cement & concrete	17	17	-----

## CALCITE, MI

## NON-CORPS PROJECT

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	7,975	1986	6,843
1982	5,269	1987	8,159
1983	6,116	1988	10,205
1984	7,789	1989	9,238
1985	7,740	1990	10,058

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Canadian		Domestic		
		Imports	Exports	Total	Lakewise	Receipts
				Shipments		
<b>Total, all commodities</b>	<b>10,058</b>	<b>65</b>	<b>1,523</b>	<b>8,470</b>	<b>240</b>	<b>8,230</b>
<b>Total coal</b>	<b>8</b>	-----	-----	<b>8</b>	<b>8</b>	-----
1100 coal lignite	8	-----	-----	8	8	-----
<b>Total crude materials, inedible except fuels</b>	<b>10,030</b>	<b>45</b>	<b>1,523</b>	<b>8,462</b>	<b>232</b>	<b>8,230</b>
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>9,905</b>	-----	<b>1,523</b>	<b>8,383</b>	<b>232</b>	<b>8,151</b>
4322 limestone	9,905	-----	1,523	8,383	232	8,151
<b>Subtotal sulphur, clay and salt</b>	<b>79</b>	-----	-----	<b>79</b>	-----	<b>79</b>
4782 clay & refrac. mat.	79	-----	-----	79	-----	79
<b>Subtotal slag</b>	<b>28</b>	<b>28</b>	-----	-----	-----	-----
4860 slag	28	28	-----	-----	-----	-----
<b>Subtotal other non-metal. min.</b>	<b>17</b>	<b>17</b>	-----	-----	-----	-----
4900 non-metal. min. nec	17	17	-----	-----	-----	-----
<b>Total unknown or not elsewhere classified</b>	<b>20</b>	<b>20</b>	-----	-----	-----	-----
9900 unknown or nec	20	20	-----	-----	-----	-----

## ESCANABA, MI

## NON-CORPS PROJECT

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	10,062	1986	8,720
1982	6,507	1987	6,113
1983	8,670	1988	7,873
1984	10,454	1989	6,767
1985	8,676	1990	6,400

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Canadian		Domestic			Internal Receipts
		Exports	Total	Lakewise	Shipments		
			Receipts	Receipts	Shipments		
<b>Total, all commodities</b>	<b>6,400</b>	<b>21</b>	<b>6,379</b>	<b>726</b>	<b>5,644</b>	<b>9</b>	
<b>Total coal</b>	<b>312</b>	<b>-----</b>	<b>312</b>	<b>312</b>	<b>-----</b>	<b>-----</b>	
1100 coal lignite	312	-----	312	312	-----	-----	
<b>Total petroleum and petroleum products</b>	<b>109</b>	<b>-----</b>	<b>109</b>	<b>109</b>	<b>-----</b>	<b>-----</b>	
<b>Subtotal petroleum products</b>	<b>109</b>	<b>-----</b>	<b>109</b>	<b>109</b>	<b>-----</b>	<b>-----</b>	
2211 gasoline	61	-----	61	61	-----	-----	
2330 distillate fuel oil	48	-----	48	48	-----	-----	
<b>Total chemicals and related products</b>	<b>9</b>	<b>-----</b>	<b>9</b>	<b>-----</b>	<b>-----</b>	<b>9</b>	
<b>Subtotal other chemicals and related products</b>	<b>9</b>	<b>-----</b>	<b>9</b>	<b>-----</b>	<b>-----</b>	<b>9</b>	
3274 sodium hydroxide	9	-----	9	9	-----	9	
<b>Total crude materials, inedible except fuels</b>	<b>5,970</b>	<b>21</b>	<b>5,949</b>	<b>305</b>	<b>5,644</b>	<b>-----</b>	
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>326</b>	<b>21</b>	<b>305</b>	<b>305</b>	<b>-----</b>	<b>-----</b>	
4322 limestone	326	21	305	305	-----	-----	
<b>Subtotal iron ore and scrap</b>	<b>5,644</b>	<b>-----</b>	<b>5,644</b>	<b>-----</b>	<b>5,644</b>	<b>-----</b>	
4410 iron ore	5,644	-----	5,644	-----	5,644	-----	
<b>Total all manufactured equipment, machinery and products</b>	<b>0</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	
7110 machinery (not elec)	0	0	-----	-----	-----	-----	

## STONEPORT, MI

## NON-CORPS PROJECT

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	6,142	1986	6,643
1982	3,943	1987	8,186
1983	5,347	1988	8,337
1984	5,946	1989	8,888
1985	6,501	1990	8,694

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Canadian		Domestic		
		Exports	Total	Lakewise		Shipments
			Receipts			
<b>Total, all commodities</b>	<b>8,694</b>	<b>937</b>	<b>7,756</b>	<b>361</b>	<b>7,396</b>	
<b>Total crude materials, inedible except fuels</b>	<b>8,694</b>	<b>937</b>	<b>7,756</b>	<b>361</b>	<b>7,396</b>	
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>8,694</b>	<b>937</b>	<b>7,756</b>	<b>361</b>	<b>7,396</b>	
4322 limestone	8,679	922	7,756	361	7,396	
4323 gypsum	15	15	—	—	—	

## Other Harbors and Waterways

Harbor or Waterway	Commodity	Tons Thousand
Project		
ALGOMA HARBOR, WI	No Commerce Reported	
ALGONAC, MI (INCLUDED IN ST. CLAIR RIVER)	No Commerce Reported	
AU SABLE HARBOR AND RIVER (OSCODA), MI	No Commerce Reported	
BIG BAY HARBOR, MI	No Commerce Reported	
BLACK RIVER HARBOR, MI	No Commerce Reported	
CASEVILLE, MI	No Commerce Reported	
CEDAR RIVER HARBOR, MI	No Commerce Reported	
CHEBOYGAN HARBOR, MI	1100 coal lignite 2211 gasoline 2330 distillate fuel oil 2350 lube oil & greases 5480 fab. metal products 7120 electrical machinery	5 88 42 0 0 0
	<b>Total Tons(x1000)</b>	<b>134</b>
DETOUR, MI AND VICINITY (INCLUDED IN ST. MARYS RIVER)	3230 carboxylic acids 7210 vehicles & parts	0 0
	<b>Total Tons(x1000)</b>	<b>0</b>
DETROIT HARBOR, WI	2211 gasoline 2330 distillate fuel oil 2540 petroleum coke 2640 liquid natural gas 4170 wood in the rough 6134 fish (not shellfish) 7110 machinery (not elec) 7900 manufac. prod. nec 9900 unknown or nec	1 1 0 0 1 0 0 1 2
	<b>Total Tons(x1000)</b>	<b>7</b>
EAGLE HARBOR, MI	No Commerce Reported	
FRANKFORT HARBOR, MI	2430 asphalt, tar & pitch	100
	<b>Total Tons(x1000)</b>	<b>100</b>

## Other Harbors and Waterways - continued

Harbor or Waterway	Commodity	Tons Thousand
Project		
GLADSTONE HARBOR, MI	1100 coal lignite 2430 asphalt, tar & pitch 4900 non-metal. min. nec	100 30 24
	<b>Total Tons(x1000)</b>	<b>153</b>
GRAND MARAIS HARBOR (HARBOR OF REFUGE), MI	No Commerce Reported	
GRAND TRAVERSE BAY HARBOR, MI	No Commerce Reported	
HARBOR BEACH, MI (HARBOR OF REFUGE, LAKE HURON)	1100 coal lignite 4322 limestone	72 27
	<b>Total Tons(x1000)</b>	<b>98</b>
HARRISVILLE HARBOR, MI (HARBOR OF REFUGE, LAKE HURON)	No Commerce Reported	
KENOSHA HARBOR, WI	5480 fab. metal products 7110 machinery (not elec)	0 0
	<b>Total Tons(x1000)</b>	<b>0</b>
KEWAUNEE HARBOR, WI	3120 phosphatic fert. 3275 inorg. elem., oxides, & halogen salts 3276 metallic salts 3298 wood & resin chem. 4189 lumber 4225 pulp & waste paper 4310 building stone 4331 sand & gravel 4782 clay & refrac. mat. 4900 non-metal. min. nec 5120 paper & paperboard 5190 paper products nec 5220 cement & concrete 5390 primary i&s nec 6654 vegetables & prod. 6782 animal feed, prep. 6811 meat, fresh, frozen 6865 molasses 6885 alcoholic beverages 7400 manufac. wood prod. 7600 rubber & plastic pr. 7900 manufac. prod. nec	2 15 11 0 25 0 0 5 10 1 68 55 7 0 4 5 0 0 0 0 2 13 4
	<b>Total Tons(x1000)</b>	<b>227</b>
KEWEENAW WATERWAY, MI	1100 coal lignite 2211 gasoline 2330 distillate fuel oil 3286 plastics	57 0 0 0

### **Other Harbors and Waterways - continued**

## Other Harbors and Waterways - continued

Harbor or Waterway	Commodity	Tons Thousand
Project		
MENOMINEE HARBOR AND RIVER, MI AND WI - continued	5480 fab. metal products	0
	<b>Total Tons(x1000)</b>	<b>102</b>
NEW BUFFALO HARBOR MI	No Commerce Reported	
OCONTO HARBOR, WI	No Commerce Reported	
ONTONAGON HARBOR, MI	1100 coal lignite	174
	<b>Total Tons(x1000)</b>	<b>174</b>
PENSAUKEE HARBOR, WI	No Commerce Reported	
PENTWATER HARBOR, MI	No Commerce Reported	
PORT SANILAC HARBOR, MI	No Commerce Reported	
PORT WASHINGTON HARBOR, WI	1100 coal lignite	139
	<b>Total Tons(x1000)</b>	<b>139</b>
PUT-IN-BAY HARBOR, OH	7900 manufac. prod. nec 9900 unknown or nec	0 1
	<b>Total Tons(x1000)</b>	<b>1</b>
RACINE HARBOR, WI	No Commerce Reported	
ROGERS CITY, MI	No Commerce Reported	
SAUGATUCK HARBOR AND KALAMAZOO RIVER, MI	No Commerce Reported	
SAULT STE. MARIE, MI (INCLUDED IN ST. MARYS RIVER)	2330 distillate fuel oil 2350 lube oil & greases 3250 organo-inorgan. comp 3284 medicines 3291 pesticides 4170 wood in the rough 4189 lumber 4225 pulp & waste paper 4331 sand & gravel 4420 iron & steel scrap 4900 non-metal. min. nec 5120 paper & paperboard 5290 misc. mineral prod.	50 00 00 00 00 00 00 00 29 5 79 00 00

### **Other Harbors and Waterways - continued**

## Other Harbors and Waterways - continued

Harbor or Waterway	Commodity	Tons Thousand
Project		
WYANDOTTE, MI (INCLUDED IN PORT OF DETROIT) - continued	9900 unknown or nec	0
	<b>Total Tons(x1000)</b>	<b>137</b>
Non-project		
ALABASTER, MI	4323 gypsum	563
	<b>Total Tons(x1000)</b>	<b>563</b>
MARBLEHEAD, OH	4322 limestone	980
	<b>Total Tons(x1000)</b>	<b>980</b>
PORT DOLOMITE, MI	3110 nitrogenous fert. 3274 sodium hydroxide 3275 inorg. elem. oxides, & halogen salts 4322 limestone 4331 sand & gravel 4782 clay & refrac. mat. 4860 slag	0 0 0 4,610 13 94 1
	<b>Total Tons(x1000)</b>	<b>4,718</b>
PORT GYPSUM, MI	2330 distillate fuel oil 3286 plastics 4323 gypsum 4900 non-metal. min. nec 5390 primary i&s nec	7 0 469 13 0
	<b>Total Tons(x1000)</b>	<b>490</b>

## TOLEDO HARBOR, OH

Section Included: Channel in Lake Erie and 7 miles in lower Maumee River. Controlling Depths: 28 feet in the Bay Channel; 27 feet in The River Channel to the Turning Basin opposite the Mid-States Terminals, Inc. dock; thence 14 feet to the Turning Basin at the upper project limits with 13 feet in the Turning Basin; 20 feet in the Turning Basin at mile 3 and 27 feet in the Turning Basin at mile 6.5, project depths: 28 feet in bay and 27 feet in the river channel to the Turning Basin opposite the Mid-States Terminals, Inc. dock; thence 25 feet to the Turning Basin at upstream limits of the project with 18 feet in the Turning Basin; 20 feet in the Turning Basin at mile 3 and 27 feet in Turning Basin at mile 6.5. Navigation season: Approximately March 1 to December 31.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	22,962	1986	17,819
1982	16,394	1987	16,212
1983	17,409	1988	14,742
1984	20,837	1989	14,806
1985	18,400	1990	14,668

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			Internal Inraport
		Imports	Exports	Imports	Exports	Total Receipts	Lakewise Shipments		
<b>Total, all commodities</b>	<b>14,668</b>	<b>265</b>	<b>442</b>	<b>842</b>	<b>5,576</b>	<b>7,544</b>	<b>3,989</b>	<b>3,552</b>	<b>3</b>
Total coal	8,427	-----	5	-----	5,067	3,355	-----	3,355	-----
1100 coal lignite	8,427	-----	5	-----	5,067	3,355	-----	3,355	-----
1200 coal coke	0	-----	0	-----	-----	-----	-----	-----	-----
<b>Total petroleum and petroleum products</b>	<b>319</b>	<b>-----</b>	<b>0</b>	<b>34</b>	<b>62</b>	<b>223</b>	<b>23</b>	<b>197</b>	<b>3</b>
<b>Subtotal crude petroleum</b>	<b>7</b>	<b>-----</b>	<b>7</b>	<b>-----</b>	<b>7</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
2100 crude petroleum	7	-----	7	-----	7	-----	-----	-----	-----
<b>Subtotal petroleum products</b>	<b>312</b>	<b>-----</b>	<b>0</b>	<b>27</b>	<b>62</b>	<b>223</b>	<b>23</b>	<b>197</b>	<b>3</b>
2211 gasoline	79	-----	-----	48	-----	31	-----	31	-----
2330 distillate fuel oil	49	-----	-----	27	-----	22	1	19	3
2340 residual fuel oil	151	-----	-----	-----	-----	151	3	148	-----
2350 lube oil & greases	0	-----	0	-----	-----	-----	-----	-----	-----
2430 asphalt, tar & pitch	20	-----	-----	-----	-----	20	20	-----	-----
2540 petroleum coke	14	-----	-----	14	-----	-----	-----	-----	-----

TOLEDO HARBOR, OH  
Freight Traffic, 1990 - continued  
(thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Lakewise	Internal
						Receipts	Shipments	Intraport
<b>Total chemicals and related products</b>	<b>466</b>	<b>30</b>	<b>2</b>	<b>434</b>	-----	-----	-----	-----
<b>Subtotal fertilizers</b>	<b>439</b>	<b>6</b>	-----	<b>434</b>	-----	-----	-----	-----
3110 nitrogenous fert.	56	6	-----	50	-----	-----	-----	-----
3130 potassic fert.	383	-----	-----	383	-----	-----	-----	-----
<b>Subtotal other chemicals and related products</b>	<b>26</b>	<b>25</b>	<b>2</b>	-----	-----	-----	-----	-----
3219 other hydrocarbons	0	-----	0	-----	-----	-----	-----	-----
3220 alcohols	0	-----	0	-----	-----	-----	-----	-----
3230 carboxylic acids	0	-----	0	-----	-----	-----	-----	-----
3250 organo-inorgan. comp	0	0	0	-----	-----	-----	-----	-----
3260 organic comp. nec	0	-----	0	-----	-----	-----	-----	-----
3275 inorg. elem., oxides, & halogen salts	0	0	0	-----	-----	-----	-----	-----
3276 metallic salts	25	25	0	-----	-----	-----	-----	-----
3282 pigments & paints	0	-----	0	-----	-----	-----	-----	-----
3283 coloring mat. nec	0	-----	0	-----	-----	-----	-----	-----
3285 perfumes & cleansers	0	-----	0	-----	-----	-----	-----	-----
3286 plastics	1	-----	1	-----	-----	-----	-----	-----
3292 starches, gluten, glue	0	-----	0	-----	-----	-----	-----	-----
3297 chemical additives	0	-----	0	-----	-----	-----	-----	-----
3299 chem. products nec	0	-----	0	-----	-----	-----	-----	-----
<b>Total crude materials, inedible except fuels</b>	<b>4,110</b>	<b>8</b>	<b>3</b>	<b>213</b>	<b>58</b>	<b>3,827</b>	<b>3,827</b>	-----
<b>Subtotal forest products, wood and chips</b>	<b>1</b>	-----	1	-----	-----	-----	-----	-----
4170 wood in the rough	0	-----	0	-----	-----	-----	-----	-----
4189 lumber	1	-----	1	-----	-----	-----	-----	-----
<b>Subtotal pulp and waste paper</b>	<b>0</b>	-----	0	-----	-----	-----	-----	-----
4225 pulp & waste paper	0	-----	0	-----	-----	-----	-----	-----

**TOLEDO HARBOR, OH**  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			Inraport
		Imports	Exports	Imports	Exports	Total	Lakewise	Shipments	
						Receipts			
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>170</b>	<b>0</b>	<b>0</b>	<b>114</b>	<b>23</b>	<b>33</b>	<b>33</b>	<b>-----</b>	<b>-----</b>
4322 limestone	24	-----	0	-----	23	-----	-----	-----	-----
4331 sand & gravel	146	0	-----	114	-----	33	33	-----	-----
<b>Subtotal iron ore and scrap</b>	<b>3,739</b>	<b>-----</b>	<b>2</b>	<b>-----</b>	<b>35</b>	<b>3,702</b>	<b>3,702</b>	<b>-----</b>	<b>-----</b>
4410 iron ore	3,737	-----	-----	-----	35	3,702	3,702	-----	-----
4420 iron & steel scrap	2	-----	2	-----	-----	-----	-----	-----	-----
<b>Subtotal non-ferrous ores and scrap</b>	<b>0</b>	<b>-----</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
4650 aluminum ore	0	-----	0	-----	-----	-----	-----	-----	-----
4680 non-ferrous scrap	0	-----	0	-----	-----	-----	-----	-----	-----
<b>Subtotal sulphur, clay and salt</b>	<b>7</b>	<b>7</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
4782 clay & refrac. mat.	7	7	0	-----	-----	-----	-----	-----	-----
<b>Subtotal slag</b>	<b>31</b>	<b>-----</b>	<b>31</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
4860 slag	31	-----	31	-----	-----	-----	-----	-----	-----
<b>Subtotal other non-metal. min.</b>	<b>162</b>	<b>-----</b>	<b>0</b>	<b>69</b>	<b>-----</b>	<b>93</b>	<b>93</b>	<b>-----</b>	<b>-----</b>
4900 non-metal. min. nec	162	-----	0	69	-----	93	93	-----	-----
<b>Total primary manufactured goods</b>	<b>383</b>	<b>227</b>	<b>9</b>	<b>9</b>	<b>-----</b>	<b>138</b>	<b>138</b>	<b>-----</b>	<b>-----</b>
<b>Subtotal paper products</b>	<b>1</b>	<b>-----</b>	<b>1</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
5120 paper & paperboard	1	-----	1	-----	-----	-----	-----	-----	-----
5190 paper products nec	0	-----	0	-----	-----	-----	-----	-----	-----
<b>Subtotal lime, cement and glass</b>	<b>138</b>	<b>-----</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>138</b>	<b>138</b>	<b>-----</b>	<b>-----</b>
5220 cement & concrete	138	-----	-----	-----	-----	138	138	-----	-----
5240 glass & glass prod.	0	-----	0	-----	-----	-----	-----	-----	-----
5290 misc. mineral prod.	0	-----	0	-----	-----	-----	-----	-----	-----
<b>Subtotal primary iron and steel products</b>	<b>185</b>	<b>168</b>	<b>7</b>	<b>9</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
5312 pig iron	9	-----	-----	9	-----	-----	-----	-----	-----
5320 i&s primary forms	8	0	7	-----	-----	-----	-----	-----	-----
5330 i&s plates & sheets	75	75	0	-----	-----	-----	-----	-----	-----

**TOLEDO HARBOR, OH**  
**Freight Traffic, 1990 - continued**  
**(thousand tons)**

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Lakewise	Internal
						Receipts	Shipments	Intraport
5360 i&s bars & shapes	89	89	-----	-----	-----	-----	-----	-----
5370 i&s pipe & tube	2	2	0	-----	-----	-----	-----	-----
5390 primary i&s nec	2	2	-----	-----	-----	-----	-----	-----
<b>Subtotal primary non-ferrous metal products</b>	<b>59</b>	<b>59</b>	<b>0</b>	-----	-----	-----	-----	-----
5422 aluminum	0	0	0	-----	-----	-----	-----	-----
5429 smelted prod. nec	59	59	0	-----	-----	-----	-----	-----
5480 fab. metal products	0	0	-----	-----	-----	-----	-----	-----
<b>Total food and farm products</b>	<b>963</b>	<b>0</b>	<b>422</b>	<b>152</b>	<b>389</b>	-----	-----	-----
<b>Subtotal fish</b>	<b>3</b>	-----	<b>3</b>	-----	-----	-----	-----	-----
6134 fish (not shellfish)	3	-----	3	-----	-----	-----	-----	-----
6136 shellfish	0	-----	0	-----	-----	-----	-----	-----
<b>Subtotal grain</b>	<b>767</b>	-----	<b>294</b>	<b>152</b>	<b>320</b>	-----	-----	-----
6241 wheat	151	-----	34	110	8	-----	-----	-----
6344 corn	574	-----	261	-----	313	-----	-----	-----
6445 oats	42	-----	-----	42	-----	-----	-----	-----
<b>Subtotal oilseeds</b>	<b>192</b>	-----	<b>124</b>	-----	<b>68</b>	-----	-----	-----
6522 soybeans	192	-----	124	-----	68	-----	-----	-----
<b>Subtotal vegetable products</b>	<b>1</b>	-----	-----	-----	<b>1</b>	-----	-----	-----
6654 vegetables & prod.	1	-----	-----	-----	1	-----	-----	-----
<b>Subtotal processed grain and animal feed</b>	<b>0</b>	-----	<b>0</b>	-----	-----	-----	-----	-----
6747 grain mill products	0	-----	0	-----	-----	-----	-----	-----
6782 animal feed, prep.	0	-----	0	-----	-----	-----	-----	-----
<b>Subtotal other agricultural products</b>	<b>0</b>	<b>0</b>	<b>0</b>	-----	<b>0</b>	-----	-----	-----
6811 meat, fresh, frozen	0	-----	0	-----	-----	-----	-----	-----
6839 animals & prod. nec	0	-----	0	-----	-----	-----	-----	-----
6857 fruit & nuts nec	0	-----	0	-----	-----	-----	-----	-----
6885 alcoholic beverages	0	0	-----	-----	0	-----	-----	-----
6889 food products nec	0	-----	0	-----	-----	-----	-----	-----

**TOLEDO HARBOR, OH**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) | | | | | |

Commodity	Grand Total	Foreign		Canadian		Domestic			Internal Inraport
		Imports	Exports	Imports	Exports	Total	Lakewise Receipts	Shipments	
<b>Total all manufactured equipment, machinery and products</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
7110 machinery (not elec)	0	0	0	-----	-----	-----	-----	-----	-----
7120 electrical machinery	0	-----	0	-----	-----	-----	-----	-----	-----
7210 vehicles & parts	0	-----	0	-----	-----	-----	-----	-----	-----
7230 ships & boats	0	-----	0	0	-----	-----	-----	-----	-----
7500 textile products	0	0	0	-----	-----	-----	-----	-----	-----
7600 rubber & plastic pr.	0	-----	0	-----	-----	-----	-----	-----	-----
7900 manufac. prod. nec	0	-----	0	-----	-----	-----	-----	-----	-----
<b>Total unknown or not elsewhere classified</b>	<b>0</b>	<b>-----</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
9900 unknown or nec	0	-----	0	-----	-----	-----	-----	-----	-----

## SANDUSKY HARBOR, OH

Section Included: Southeasterly portion of Sandusky Bay to and including passenger docks on Cedar Point.  
 Controlling Depth: Mosely Channel, 26 feet; Bay Channel and Straight Channel from Mosely Channel to junction with Bay Channel, 25.0 feet; Turning basin, 24 feet; Dock channel, 21 feet; Straight channel from dock channel to junction with Bay Channel, 21 feet. Project Depths: Mosely Channel, 26 feet; bay channel and Straight Channel from Mosely Channel to junction with Bay Channel, 25 feet; Turning Basin, 24 feet; Dock channel, 22 feet; and Straight channel from dock channel to junction with Bay Channel, 21 feet.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	5,949	1986	4,135
1982	5,065	1987	3,319
1983	4,344	1988	4,831
1984	4,790	1989	4,485
1985	4,586	1990	4,600

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Foreign			Canadian		Domestic	
		Exports	Imports		Exports	Total	Lakewise	Receipts
			Imports	Exports			Shipments	
<b>Total, all commodities</b>	<b>4,600</b>	<b>9</b>	<b>26</b>	<b>3,200</b>	<b>1,365</b>	<b>262</b>	<b>1,103</b>	
<b>Total coal</b>	<b>4,296</b>	-----	-----	<b>3,200</b>	<b>1,096</b>	-----	<b>1,096</b>	
1100 coal lignite	4,296	-----	-----	3,200	1,096	-----	1,096	
<b>Total petroleum and petroleum products</b>	<b>1</b>	-----	-----	-----	<b>1</b>	-----	<b>1</b>	
<b>Subtotal petroleum products</b>	<b>1</b>	-----	-----	-----	<b>1</b>	-----	<b>1</b>	
2211 gasoline	0	-----	-----	-----	0	-----	0	
2330 distillate fuel oil	0	-----	-----	-----	0	-----	0	
2430 asphalt, tar & pitch	0	-----	-----	-----	0	-----	0	
2640 liquid natural gas	0	-----	-----	-----	0	-----	0	
<b>Total chemicals and related products</b>	<b>0</b>	-----	-----	-----	<b>0</b>	-----	<b>0</b>	
<b>Subtotal fertilizers</b>	<b>0</b>	-----	-----	-----	<b>0</b>	-----	<b>0</b>	
3110 nitrogenous fert.	0	-----	-----	-----	0	-----	0	
<b>Subtotal other chemicals and related products</b>	<b>0</b>	-----	-----	-----	<b>0</b>	-----	<b>0</b>	
3275 inorg. elem., oxides, & halogen salts	0	-----	-----	-----	0	-----	0	
<b>Total crude materials, inedible except fuels</b>	<b>290</b>	-----	<b>26</b>	-----	<b>264</b>	<b>262</b>	<b>2</b>	
<b>Subtotal forest products, wood and chips</b>	<b>1</b>	-----	-----	-----	<b>1</b>	-----	<b>1</b>	
4189 lumber	1	-----	-----	-----	1	-----	1	
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>223</b>	-----	-----	-----	<b>223</b>	<b>221</b>	<b>1</b>	
4322 limestone	26	-----	-----	-----	26	26	-----	
4323 gypsum	113	-----	-----	-----	113	113	-----	
4331 sand & gravel	84	-----	-----	-----	84	83	1	

**SANDUSKY HARBOR, OH**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) | | | | | |

Commodity	Grand Total	Foreign		Canadian		Domestic	
		Exports	Imports	Exports	Total	Lakewise	
					Receipts	Shipments	
4338 soil & fill dirt	0	-----	-----	-----	0	-----	0
<b>Subtotal iron ore and scrap</b>	<b>26</b>	-----	-----	<b>26</b>	0	-----	0
4410 iron ore	26	-----	-----	26	-----	-----	-----
4420 iron & steel scrap	0	-----	-----	-----	0	-----	0
<b>Subtotal other non-metal. min.</b>	<b>40</b>	-----	-----	-----	40	40	-----
4900 non-metal. min. nec	40	-----	-----	-----	40	40	-----
<b>Total primary manufactured goods</b>	<b>1</b>	<b>0</b>	-----	-----	1	-----	1
<b>Subtotal lime, cement and glass</b>	<b>1</b>	-----	-----	-----	1	-----	1
5210 lime	0	-----	-----	-----	0	-----	0
5220 cement & concrete	0	-----	-----	-----	0	-----	0
5290 misc. mineral prod.	1	-----	-----	-----	1	-----	1
<b>Subtotal primary iron and steel products</b>	<b>0</b>	-----	-----	-----	0	-----	0
5390 primary i&s nec	0	-----	-----	-----	0	-----	0
<b>Subtotal primary non-ferrous metal products</b>	<b>0</b>	<b>0</b>	-----	-----	0	-----	0
5480 fab. metal products	0	0	-----	-----	0	-----	0
<b>Total food and farm products</b>	<b>10</b>	<b>9</b>	-----	-----	1	0	0
<b>Subtotal oilseeds</b>	<b>9</b>	<b>9</b>	-----	-----	-----	-----	-----
6522 soybeans	9	9	-----	-----	-----	-----	-----
<b>Subtotal other agricultural products</b>	<b>1</b>	<b>0</b>	-----	-----	1	0	0
6835 fish, prepared	0	0	-----	-----	-----	-----	-----
6857 fruit & nuts nec	0	0	-----	-----	0	0	-----
6871 coffee	0	0	-----	-----	-----	-----	-----
6887 groceries	0	0	-----	-----	0	-----	0
6888 water & ice	0	0	-----	-----	0	-----	0
6889 food products nec	0	0	-----	-----	0	-----	0
<b>Total all manufactured equipment, machinery and products</b>	<b>1</b>	<b>0</b>	-----	-----	1	0	1
7110 machinery (not elec)	0	-----	-----	-----	0	-----	0
7400 manufac. wood prod.	1	-----	-----	-----	1	-----	1
7600 rubber & plastic pr.	0	0	-----	-----	0	0	0
7900 manufac. prod. nec	0	0	-----	-----	-----	-----	-----
<b>Total waste and scrap nec</b>	<b>0</b>	-----	-----	-----	0	0	0
8900 waste and scrap nec	0	0	-----	-----	0	0	0
<b>Total unknown or not elsewhere classified</b>	<b>0</b>	<b>0</b>	-----	-----	-----	-----	-----
9900 unknown or nec	0	0	-----	-----	-----	-----	-----

## HURON HARBOR, OH

Section Included: Lake approach channel from deep water to a point opposite the outer end of east breakwater; Entrance channel from its junction with the approach channel to its junction with the River Channel; River channel and turning basin to within 1,500 feet of the Penn Central Railroad Bridge. Controlling Depths: Lake approach and entrance channel, 27.5 feet; river channel, 27 feet; Turning Basin, 21 feet. Project Depths: Lake approach and entrance channels, 29 feet; river channel to Slip No. 1, 28 feet; from Slip No. 1 through eastern portion of the Turning Basin, 28 feet; Turning Basin, 22 feet.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	2,380	1986	263
1982	1,893	1987	529
1983	1,954	1988	523
1984	2,509	1989	590
1985	1,950	1990	565

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Canadian Imports	Domestic Lakewise Receipts
<b>Total, all commodities</b>	<b>565</b>	<b>15</b>	<b>549</b>
<b>Total chemicals and related products</b>	<b>2</b>	<b>2</b>	-----
<b>Subtotal other chemicals and related products</b>	<b>2</b>	<b>2</b>	-----
3275 inorg. elem., oxides, & halogen salts	2	2	-----
<b>Total crude materials, inedible except fuels</b>	<b>549</b>	-----	<b>549</b>
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>549</b>	-----	<b>549</b>
4322 limestone	549	-----	549
<b>Total food and farm products</b>	<b>14</b>	<b>14</b>	-----
<b>Subtotal grain</b>	<b>14</b>	<b>14</b>	-----
6241 wheat	11	11	-----
6445 oats	3	3	-----

## LORAIN HARBOR, OH

Section Included: Outer Harbor and Black River from mouth to and including United States Steel Corp., National Tube Division dock, 3 miles. Controlling Depths: Lake Approach channel, 27.0 feet; A channel 800 feet wide through the Outer Harbor, 27 feet; remainder of Outer Harbor, 25 feet; lower 2,200 feet of River Channel, 25 feet; remainder of River Channel 24 feet except Turning Basin just downstream of the 21St Street Bridge which is 12 to 19 feet and the returning Basin opposite the U. S. Steel Corp., National Tube Division which is 12 to 20 feet. Project Depths: Lake Approach Channel, 29 feet; a channel 800 feet wide through the Outer Harbor, 28 feet; remainder of Outer Harbor, 25 feet; lower 2,200 feet of River Channel, 28 feet; remainder of River Channel, 27 feet; except Turning Basin downstream of 21St Street Bridge, 20 feet and turning basin opposite U. S. Steel Corp., National Tube Division Dock, 21 feet.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	13,720	1986	11,427
1982	5,672	1987	14,372
1983	7,230	1988	17,476
1984	9,884	1989	14,568
1985	9,426	1990	13,967

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Canadian		Domestic		
		Imports	Total	Lakewise		Shipments
			Receipts	Shipments		
<b>Total, all commodities</b>	<b>13,967</b>	<b>75</b>	<b>13,892</b>	<b>7,965</b>	<b>5,926</b>	
<b>Total coal</b>	<b>13</b>	<b>-----</b>	<b>13</b>	<b>-----</b>	<b>13</b>	
1100 coal lignite	13	-----	13	-----	13	
<b>Total chemicals and related products</b>	<b>15</b>	<b>15</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	
<b>Subtotal fertilizers</b>	<b>15</b>	<b>15</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	
3130 potassic fert.	15	15	-----	-----	-----	
<b>Total crude materials, inedible except fuels</b>	<b>13,939</b>	<b>60</b>	<b>13,879</b>	<b>7,965</b>	<b>5,914</b>	
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>384</b>	<b>-----</b>	<b>384</b>	<b>250</b>	<b>134</b>	
4322 limestone	42	-----	42	42	-----	
4323 gypsum	209	-----	209	209	-----	
4331 sand & gravel	134	-----	134	-----	134	
<b>Subtotal Iron ore and scrap</b>	<b>13,444</b>	<b>29</b>	<b>13,415</b>	<b>7,715</b>	<b>5,700</b>	
4410 iron ore	13,444	29	13,415	7,715	5,700	
<b>Subtotal slag</b>	<b>111</b>	<b>31</b>	<b>80</b>	<b>-----</b>	<b>80</b>	
4860 slag	111	31	80	-----	80	

## CLEVELAND HARBOR, OH

Section Included: Outer Harbor, Old River and Cuyahoga River from mouth to and including Upper Republic Steel Corp. Dock, immediately downstream from Norfolk & Western Railway Bridge, 5.8 miles. Controlling Depth: Lake Approach Channel, 29 feet; entrance channel, West Basin and westerly 800 feet of East Basin, 28 feet; easterly 3800-foot length of East Basin, 27 feet; 500-foot channel through East Outer Harbor, 25 feet; channel between piers to Conrail Railroad Bridge, 27.0 feet; channel in Cuyahoga River from Penn Central Railroad to upper project limit, 22 feet; Turning Basin upstream from E.I. Dupont De Nemours And Company, Inc., Grasselli Chemical Division Dock, 19.5 feet; Old River to Sand Products Corporation Dock, 23 feet; remainder of Old River to upper project limit, 14 feet. Project Depth: Lake Approach Channel, 29 feet; West Basin, entrance channel and west end of East Basin, 28 feet; remaining 3800-foot length of East Basin, 27 feet; 500-Foot Channel through East Outer Harbor, 25 feet; lower Cuyahoga River from lakeward ends of the piers to immediately above junction with Old River, 27 feet; Old River to upper project limit, 27 feet; remainder of Cuyahoga River, 23 feet; Turning Basin upstream from E.I. Dupont De Nemours & Co., Grasselli Chemical Division Dock, 18 feet.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	13,904	1986	12,188
1982	8,941	1987	13,914
1983	11,360	1988	14,551
1984	12,921	1989	14,688
1985	13,767	1990	14,368

Freight Traffic, 1990  
(thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
<b>Total, all commodities</b>	<b>3,144</b>	<b>500</b>	<b>22</b>	<b>2,394</b>	<b>227</b>
<b>Total coal</b>	<b>45</b>	-----	-----	-----	<b>45</b>
1200 coal coke	45	-----	-----	-----	<b>45</b>
<b>Total petroleum and petroleum products</b>	<b>52</b>	-----	-----	<b>52</b>	-----
<b>Subtotal petroleum products</b>	<b>52</b>	-----	-----	<b>52</b>	-----
2211 gasoline	5	-----	-----	5	-----
2330 distillate fuel oil	10	-----	-----	10	-----
2340 residual fuel oil	38	-----	-----	38	-----
<b>Total chemicals and related products</b>	<b>8</b>	<b>0</b>	-----	<b>8</b>	-----
<b>Subtotal other chemicals and related products</b>	<b>8</b>	<b>0</b>	-----	<b>8</b>	-----
3276 metallic salts	8	-----	-----	8	-----
3286 plastics	0	0	-----	-----	-----
<b>Total crude materials, inedible except fuels</b>	<b>2,360</b>	<b>0</b>	<b>15</b>	<b>2,178</b>	<b>167</b>
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>52</b>	<b>0</b>	-----	-----	<b>51</b>
4331 sand & gravel	52	0	-----	-----	<b>51</b>
<b>Subtotal iron ore and scrap</b>	<b>1,453</b>	-----	<b>15</b>	<b>1,438</b>	-----
4410 iron ore	1,438	-----	-----	1,438	-----
4420 iron & steel scrap	15	-----	15	-----	-----
<b>Subtotal non-ferrous ores and scrap</b>	<b>1</b>	<b>0</b>	-----	-----	<b>1</b>
4670 manganese ore	1	-----	-----	1	-----
4680 non-ferrous scrap	0	0	-----	-----	-----

**CLEVELAND HARBOR, OH**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) | |

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
<b>Subtotal sulphur, clay and salt</b>	<b>740</b>	-----	-----	<b>740</b>	-----
4782 clay & refrac. mat.	740	-----	-----	740	-----
<b>Subtotal other non-metal. min.</b>	<b>115</b>	-----	-----	-----	<b>115</b>
4900 non-metal. min. nec	115	-----	-----	-----	115
<b>Total primary manufactured goods</b>	<b>651</b>	<b>496</b>	<b>0</b>	<b>156</b>	-----
<b>Subtotal lime, cement and glass</b>	<b>156</b>	<b>0</b>	-----	<b>156</b>	-----
5220 cement & concrete	156	-----	-----	156	-----
5290 misc. mineral prod.	0	0	-----	-----	-----
<b>Subtotal primary iron and steel products</b>	<b>493</b>	<b>493</b>	-----	-----	-----
5315 ferro alloys	4	4	-----	-----	-----
5320 i&s primary forms	99	99	-----	-----	-----
5330 i&s plates & sheets	329	329	-----	-----	-----
5360 i&s bars & shapes	45	45	-----	-----	-----
5370 i&s pipe & tube	14	14	-----	-----	-----
5390 primary i&s nec	2	2	-----	-----	-----
<b>Subtotal primary non-ferrous metal products</b>	<b>3</b>	<b>3</b>	<b>0</b>	-----	-----
5422 aluminum	0	0	-----	-----	-----
5429 smelted prod. nec	2	2	-----	-----	-----
5480 fab. metal products	1	1	0	-----	-----
<b>Subtotal primary wood products</b>	<b>0</b>	<b>0</b>	-----	-----	-----
5540 primary wood prod.	0	0	-----	-----	-----
<b>Total food and farm products</b>	<b>20</b>	<b>0</b>	<b>4</b>	-----	<b>15</b>
<b>Subtotal oilseeds</b>	<b>15</b>	-----	-----	-----	<b>15</b>
6522 soybeans	15	-----	-----	-----	15
<b>Subtotal processed grain and animal feed</b>	<b>4</b>	-----	<b>4</b>	-----	-----
6782 animal feed, prep.	4	-----	4	-----	-----
<b>Subtotal other agricultural products</b>	<b>0</b>	<b>0</b>	-----	-----	-----
6885 alcoholic beverages	0	0	-----	-----	-----
<b>Total all manufactured equipment, machinery and products</b>	<b>6</b>	<b>4</b>	<b>3</b>	-----	-----
7110 machinery (not elec)	6	3	3	-----	-----
7120 electrical machinery	0	0	0	-----	-----
7210 vehicles & parts	0	0	-----	-----	-----
7500 textile products	0	0	-----	-----	-----
7600 rubber & plastic pr.	0	0	-----	-----	-----
7900 manufac. prod. nec	0	0	0	-----	-----
<b>Total unknown or not elsewhere classified</b>	<b>0</b>	<b>0</b>	-----	-----	-----
9900 unknown or nec	0	0	-----	-----	-----

CLEVELAND HARBOR, OH  
Freight Traffic, 1990 - continued  
(thousand tons)

Commodity	Total	Domestic			
		Lakewise Receipts	Shipments	Internal Receipts	Inraport
<b>Total, all commodities</b>	<b>11,224</b>	<b>10,698</b>	<b>523</b>	<b>1</b>	<b>2</b>
<b>Total coal</b>	<b>7</b>	<b>7</b>	-----	-----	-----
1100 coal lignite	7	7	-----	-----	-----
<b>Total petroleum and petroleum products</b>	<b>307</b>	<b>307</b>	-----	-----	-----
<b>Subtotal petroleum products</b>	<b>307</b>	<b>307</b>	-----	-----	-----
2330 distillate fuel oil	6	6	-----	-----	-----
2340 residual fuel oil	116	116	-----	-----	-----
2430 asphalt, tar & pitch	185	185	-----	-----	-----
<b>Total crude materials, Inedible except fuels</b>	<b>10,464</b>	<b>9,938</b>	<b>523</b>	-----	<b>2</b>
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>2,598</b>	<b>2,598</b>	-----	-----	-----
4322 limestone	2,470	2,470	-----	-----	-----
4331 sand & gravel	127	127	-----	-----	-----
<b>Subtotal iron ore and scrap</b>	<b>7,329</b>	<b>7,327</b>	-----	-----	<b>2</b>
4410 iron ore	7,329	7,327	-----	-----	<b>2</b>
<b>Subtotal sulphur, clay and salt</b>	<b>14</b>	<b>14</b>	-----	-----	-----
4782 clay & refrac. mat.	14	14	-----	-----	-----
<b>Subtotal other non-metal. min.</b>	<b>523</b>	-----	<b>523</b>	-----	-----
4900 non-metal. min. nec	523	-----	523	-----	-----
<b>Total primary manufactured goods</b>	<b>436</b>	<b>436</b>	-----	-----	-----
<b>Subtotal lime, cement and glass</b>	<b>436</b>	<b>436</b>	-----	-----	-----
5220 cement & concrete	436	436	-----	-----	-----
<b>Total food and farm products</b>	<b>10</b>	<b>10</b>	-----	-----	-----
<b>Subtotal grain</b>	<b>10</b>	<b>10</b>	-----	-----	-----
6241 wheat	10	10	-----	-----	-----
<b>Total all manufactured equipment, machinery and products</b>	<b>1</b>	-----	-----	<b>1</b>	-----
7110 machinery (not elec)	1	-----	-----	1	-----

## FAIRPORT HARBOR, OH

Section Included: Outer harbor and Grand River from mouth to and including Diamond Alkali Company Stone Dock, 1.5 miles. Controlling Depths: Entrance Channel, 24 feet; Outer Harbor, 24.0 feet; Grand River to upstream of Republic Steel, 19.0 feet; remaining length of Grand River to the upper project limit, 19 feet; except for 1,000 feet of the upstream end of the west side of the channel, 5 feet; Turning Basin, 15 feet. Maintenance Depths: Entrance channel and outer harbor, 25 feet; Grand River to upstream of Republic Steel, 24 feet; remaining length of Grand River to the upper project limits, 21 feet; Turning Basin, 18 feet.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	1,674	1986	2,493
1982	1,627	1987	2,077
1983	1,710	1988	2,212
1984	1,995	1989	2,634
1985	2,318	1990	2,320

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Canadian		Domestic		
		Imports	Exports	Total	Lakewise	Shipments
				Receipts		
<b>Total, all commodities</b>	<b>2,320</b>	<b>12</b>	<b>87</b>	<b>2,221</b>	<b>1,822</b>	<b>399</b>
<b>Total crude materials, inedible except fuels</b>	<b>2,320</b>	<b>12</b>	<b>87</b>	<b>2,221</b>	<b>1,822</b>	<b>399</b>
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>1,821</b>	-----	-----	<b>1,821</b>	<b>1,811</b>	<b>11</b>
4322 limestone	1,695	-----	-----	1,695	1,695	-----
4331 sand & gravel	126	-----	-----	126	116	11
<b>Subtotal sulphur, clay and salt</b>	<b>24</b>	<b>12</b>	-----	<b>12</b>	<b>12</b>	-----
4782 clay & refrac. mat.	24	12	-----	12	12	-----
<b>Subtotal other non-metal. min.</b>	<b>475</b>	-----	<b>87</b>	<b>388</b>	-----	<b>388</b>
4900 non-metal. min. nec	475	-----	87	388	-----	388

## ASHTABULA HARBOR, OH

Section Included: Outer harbor and Ashtabula River from mouth to and including city of Ashtabula Dock (Former Great Lakes Engineering Works Dock), 1.75 miles. Controlling Depth: Westerly portion of outer harbor to inner breakwater & approach channel to docks east of inner breakwater, 26.0 feet turning basin in front of inner breakwater 21.5 feet; the approach to the Penn. Central Railroad Company's slip and the lower 2,000 feet of the Ashtabula River, 23 feet; thence to car ferry slip, 10 feet; thence to a point 1,550 feet upstream from Turning Basin and including Turning Basin, 3 feet. Project Depth: Entrance channel, 29 feet; westerly portion of outer harbor to inner breakwater, 28 feet; Approach Channel to docks east of inner breakwater, 28 feet; Turning basin in the easterly portion of the outer harbor, 22 feet; channel from inside the Inner Breakwater to mouth of river and 2,000 feet upstream and approach channel to Penn. Central Railroad Slip, 27 feet; thence to car ferry slip, 18 feet; thence to a point 1,550 feet upstream from turning basin and including turning basin, 16 feet.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	9,948	1986	7,164
1982	6,832	1987	8,888
1983	8,395	1988	10,335
1984	9,243	1989	10,322
1985	7,039	1990	11,852

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Lakewise	
						Receipts	Shipments	
<b>Total, all commodities</b>	<b>11,852</b>	<b>169</b>	<b>77</b>	<b>901</b>	<b>3,958</b>	<b>6,747</b>	<b>5,447</b>	<b>1,300</b>
<b>Total coal</b>	<b>5,328</b>	-----	<b>75</b>	-----	<b>3,953</b>	<b>1,300</b>	-----	<b>1,300</b>
1100 coal lignite	5,328	-----	75	-----	3,953	1,300	-----	1,300
<b>Total petroleum and petroleum products</b>	<b>5</b>	-----	-----	-----	<b>5</b>	-----	-----	-----
<b>Subtotal petroleum products</b>	<b>5</b>	-----	-----	-----	<b>5</b>	-----	-----	-----
2330 distillate fuel oil	5	-----	-----	-----	5	-----	-----	-----
<b>Total chemicals and related products</b>	<b>95</b>	-----	-----	<b>95</b>	-----	-----	-----	-----
<b>Subtotal fertilizers</b>	<b>95</b>	-----	-----	<b>95</b>	-----	-----	-----	-----
3130 potassic fert.	95	-----	-----	95	-----	-----	-----	-----
<b>Total crude materials, inedible except fuels</b>	<b>6,383</b>	<b>164</b>	<b>1</b>	<b>770</b>	<b>1</b>	<b>5,447</b>	<b>5,447</b>	-----
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>486</b>	-----	-----	<b>6</b>	-----	<b>480</b>	<b>480</b>	-----
4310 building stone	6	-----	-----	6	-----	480	480	-----
4322 limestone	480	-----	-----	-----	-----	480	480	-----
<b>Subtotal iron ore and scrap</b>	<b>5,589</b>	-----	<b>1</b>	<b>621</b>	-----	<b>4,967</b>	<b>4,967</b>	-----
4410 iron ore	5,588	-----	1	621	-----	4,967	4,967	-----
4420 iron & steel scrap	1	-----	1	-----	-----	-----	-----	-----

**ASHTABULA HARBOR, OH**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) | | | | | |

Commodity	Grand Total	Foreign		Canadian		Domestic	
		Imports	Exports	Imports	Exports	Total	Lakewise Receipts
							Shipments
<b>Subtotal non-ferrous ores and scrap</b>	<b>152</b>	<b>152</b>	-----	-----	-----	-----	-----
4680 non-ferrous scrap	32	32	-----	-----	-----	-----	-----
4690 non-ferrous ores nec	120	120	-----	-----	-----	-----	-----
<b>Subtotal sulphur, clay and salt</b>	<b>155</b>	<b>12</b>	-----	<b>143</b>	-----	-----	-----
4782 clay & refrac. mat.	155	12	-----	143	-----	-----	-----
<b>Subtotal other non-metal. min.</b>	<b>1</b>	-----	-----	-----	1	-----	-----
4900 non-metal. min. nec	1	-----	-----	-----	1	-----	-----
<b>Total primary manufactured goods</b>	<b>41</b>	<b>5</b>	<b>0</b>	<b>36</b>	-----	-----	-----
<b>Subtotal paper products</b>	<b>0</b>	-----	<b>0</b>	-----	-----	-----	-----
5120 paper & paperboard	0	-----	0	-----	-----	-----	-----
<b>Subtotal lime, cement and glass</b>	<b>36</b>	-----	-----	<b>36</b>	-----	-----	-----
5220 cement & concrete	36	-----	-----	36	-----	-----	-----
<b>Subtotal primary Iron and steel products</b>	<b>5</b>	<b>5</b>	-----	-----	-----	-----	-----
5315 ferro alloys	4	4	-----	-----	-----	-----	-----
5360 i&s bars & shapes	1	1	-----	-----	-----	-----	-----

## CONNEAUT HARBOR, OH

Section Included: Outer harbor and Conneaut River 2,450 feet upstream of the outer end of the West Pier.  
 Controlling Depth: Westerly portion of outer harbor, 20.5 feet; access channel to city dock, 7.5 feet; easterly portion of outer harbor 23 feet. Inner Harbor, 28.5 feet; Project Depth: Easterly portion of outer harbor, 28 feet; westerly portion of outer harbor, 22 feet; access channel to city dock 8 feet: Inner Harbor, 27 feet.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	16,151	1986	7,675
1982	10,968	1987	7,047
1983	8,771	1988	10,220
1984	12,661	1989	8,890
1985	9,148	1990	9,567

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Exports	Imports	Exports	Exports	Total	Lakewise	Receipts
<b>Total, all commodities</b>	<b>9,567</b>	<b>159</b>	<b>13</b>	<b>5,887</b>	<b>3,507</b>	<b>2,260</b>	<b>1,247</b>	
<b>Total coal</b>	<b>7,224</b>	<b>105</b>	<b>-----</b>	<b>5,873</b>	<b>1,247</b>	<b>-----</b>	<b>1,247</b>	
1100 coal lignite	7,224	105	-----	5,873	1,247	-----	1,247	
<b>Total petroleum and petroleum products</b>	<b>69</b>	<b>55</b>	<b>-----</b>	<b>14</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	
<b>Subtotal petroleum products</b>	<b>69</b>	<b>55</b>	<b>-----</b>	<b>14</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	
2340 residual fuel oil	55	55	-----	-----	-----	-----	-----	
2350 lube oil & greases	0	-----	-----	0	-----	-----	-----	
2429 naphtha & solvents	6	-----	-----	6	-----	-----	-----	
2540 petroleum coke	8	-----	-----	8	-----	-----	-----	
<b>Total chemicals and related products</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	
<b>Subtotal other chemicals and related products</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	
3286 plastics	0	-----	-----	0	-----	-----	-----	
<b>Total crude materials, inedible except fuels</b>	<b>2,273</b>	<b>-----</b>	<b>13</b>	<b>-----</b>	<b>2,260</b>	<b>2,260</b>	<b>-----</b>	
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>483</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>483</b>	<b>483</b>	<b>-----</b>	
4322 limestone	443	-----	-----	-----	443	443	-----	
4323 gypsum	41	-----	-----	-----	41	41	-----	
<b>Subtotal iron ore and scrap</b>	<b>1,790</b>	<b>-----</b>	<b>13</b>	<b>-----</b>	<b>1,777</b>	<b>1,777</b>	<b>-----</b>	
4410 iron ore	1,790	-----	13	-----	1,777	1,777	-----	
<b>Total all manufactured equipment, machinery and products</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	
7230 ships & boats	0	-----	-----	0	-----	-----	-----	

## ERIE HARBOR, PA

Section Included: Southerly side of Erie Harbor and Lake Erie water frontage from harbor entrance eastward to and including Sun Oil Co dock, 3.5 miles. Controlling Depth: Entrance channel, 29 feet; channel to easterly coal and ore docks, 27 feet; and 27 feet to the Port Authority Dock; harbor basin, 21 feet; westerly portion of harbor, 18 feet. Project Depth: Entrance channel, 29 feet; Approach Channel to easterly coal and ore docks, 28 feet; approach to Port Authority Docks, 27 feet; Harbor Basin, 21 feet; westerly portion of Harbor Basin, 18 feet. The approach channel from the 28 foot channel to and including turning basin at westerly docks has been authorized, but never completed and considered inactive at the present time.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	755	1986	834
1982	624	1987	971
1983	607	1988	1,002
1984	829	1989	734
1985	966	1990	811

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Foreign		Canadian	Domestic
		Imports	Exports	Imports	Lakewise Receipts
<b>Total, all commodities</b>	<b>810</b>	<b>12</b>	<b>77</b>	<b>234</b>	<b>488</b>
<b>Total crude materials, inedible except fuels</b>	<b>782</b>	-----	<b>76</b>	<b>218</b>	<b>488</b>
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>419</b>	-----	-----	-----	<b>419</b>
4322 limestone	233	-----	-----	-----	233
4331 sand & gravel	186	-----	-----	-----	186
<b>Subtotal iron ore and scrap</b>	<b>76</b>	-----	<b>76</b>	-----	-----
4420 iron & steel scrap	76	-----	76	-----	-----
<b>Subtotal sulphur, clay and salt</b>	<b>194</b>	-----	-----	<b>194</b>	-----
4782 clay & refrac. mat.	194	-----	-----	194	-----
<b>Subtotal other non-metal. min.</b>	<b>92</b>	-----	-----	<b>24</b>	<b>69</b>
4900 non-metal. min. nec	92	-----	-----	24	69
<b>Total primary manufactured goods</b>	<b>28</b>	<b>11</b>	-----	<b>17</b>	-----
<b>Subtotal primary iron and steel products</b>	<b>28</b>	<b>11</b>	-----	<b>17</b>	-----
5312 pig iron	8	-----	-----	8	-----
5315 ferro alloys	15	11	-----	3	-----
5330 i&s plates & sheets	0	0	-----	-----	-----
5390 primary i&s nec	5	-----	-----	5	-----
<b>Total all manufactured equipment, machinery and products</b>	<b>1</b>	<b>0</b>	<b>1</b>	-----	-----
7110 machinery (not elec)	1	0	1	-----	-----

## BUFFALO HARBOR, NY (INCLUDED IN PORT OF BUFFALO)

Section Included: Outer harbor, Lackawanna Canal, Union Canal, Buffalo River from mouth to Conrail R. Y. Bridge, 5.5 miles. Buffalo Ship Canal, and Black Rock Lock Canal to the Black Rock Lock. Controlling Depths: Outer area of south entrance channel, 30 feet; south entrance channel 29.0 feet; southern portion of outer harbor, 28 feet; 900 feet wide section adjacent to the south breakwater beginning 2,000 feet north of the south breakwater and proceeding northerly 4,200 feet, 23 feet; thence 27 feet to the International Salt Company and 23 feet in the remainder of the outer harbor to the north; new north entrance channel, 25 feet; Black Rock Canal, 21 feet; Buffalo River Entrance, Buffalo River and Buffalo Ship Canal, 22 feet. Project Depth: Outer area of south entrance channel, 30 feet; south entrance channel 29 feet; southern portion of outer harbor, 28 feet; 900 feet wide section adjacent to the south breakwater beginning 2,000 feet north of the south breakwater and proceeding northerly 4,200 feet, 23 feet. Middle section of the outer harbor, 27 feet; north outer harbor, 23 feet; north entrance channel, 25 feet; Buffalo River entrance, Buffalo River and Buffalo Ship Canal, 22 feet. Black Rock Canal, 21 feet.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	5,780	1986	1,464
1982	3,552	1987	1,103
1983	1,963	1988	1,335
1984	1,490	1989	1,564
1985	1,400	1990	2,002

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Imports		Exports	Total	Lakewise	
			Receipts	Shipments				
<b>Total, all commodities</b>	<b>2,002</b>	<b>1</b>	<b>155</b>	<b>651</b>		<b>1,195</b>	<b>1,174</b>	<b>21</b>
<b>Total coal</b>	<b>53</b>	-----	-----	<b>53</b>		-----	-----	-----
1200 coal coke	53	-----	-----	53		-----	-----	-----
<b>Total petroleum and petroleum products</b>	<b>275</b>	-----	<b>3</b>	<b>243</b>		<b>29</b>	<b>8</b>	<b>21</b>
<b>Subtotal petroleum products</b>	<b>275</b>	-----	<b>3</b>	<b>243</b>		<b>29</b>	<b>8</b>	<b>21</b>
2211 gasoline	11	-----	3	-----		8	8	-----
2330 distillate fuel oil	1	-----	-----	1		-----	-----	-----
2340 residual fuel oil	195	-----	-----	195		-----	-----	-----
2350 lube oil & greases	0	-----	-----	0		-----	-----	-----
2430 asphalt, tar & pitch	21	-----	-----	-----		21	-----	21
2540 petroleum coke	47	-----	-----	47		-----	-----	-----
<b>Total chemicals and related products</b>	<b>10</b>	<b>0</b>	<b>7</b>	<b>2</b>		-----	-----	-----
<b>Subtotal fertilizers</b>	<b>1</b>	-----	-----	1		-----	-----	-----
3190 fert. & mixes nec	1	-----	-----	1		-----	-----	-----
<b>Subtotal other chemicals and related products</b>	<b>9</b>	<b>0</b>	<b>7</b>	<b>2</b>		-----	-----	-----
3230 carboxylic acids	0	-----	-----	0		-----	-----	-----
3240 nitrogen func. comp.	0	-----	-----	0		-----	-----	-----
3250 organo-inorgan. comp	0	-----	-----	0		-----	-----	-----
3272 sulphuric acid	1	-----	1	-----		-----	-----	-----
3274 sodium hydroxide	0	-----	-----	0		-----	-----	-----

BUFFALO HARBOR, NY (INCLUDED IN PORT OF BUFFALO)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic	
		Imports	Imports	Exports	Total	Lakewise	
					Receipts	Shipments	
3275 inorg. elem.,oxides, & halogen salts	0	-----	-----	0	-----	-----	-----
3276 metallic salts	7	-----	7	0	-----	-----	-----
3282 pigments & paints	1	-----	-----	1	-----	-----	-----
3283 coloring mat. nec	0	-----	-----	0	-----	-----	-----
3285 perfumes & cleansers	0	-----	0	0	-----	-----	-----
3286 plastics	0	-----	-----	0	-----	-----	-----
3292 starches,gluten,glue	0	0	-----	-----	-----	-----	-----
3299 chem. products nec	0	0	-----	0	-----	-----	-----
<b>Total crude materials, inedible except fuels</b>	<b>532</b>	<b>0</b>	<b>0</b>	<b>284</b>	<b>247</b>	<b>247</b>	<b>-----</b>
<b>Subtotal forest products, wood and chips</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
4110 rubber & gums	0	-----	-----	0	-----	-----	-----
4189 lumber	0	-----	-----	0	-----	-----	-----
<b>Subtotal pulp and waste paper</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>0</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
4225 pulp & waste paper	0	-----	-----	0	-----	-----	-----
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>200</b>	<b>-----</b>	<b>-----</b>	<b>45</b>	<b>155</b>	<b>155</b>	<b>-----</b>
4322 limestone	105	-----	-----	14	91	91	-----
4331 sand & gravel	95	-----	-----	31	64	64	-----
<b>Subtotal iron ore and scrap</b>	<b>26</b>	<b>-----</b>	<b>0</b>	<b>26</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
4410 iron ore	26	-----	0	26	-----	-----	-----
<b>Subtotal non-ferrous ores and scrap</b>	<b>147</b>	<b>-----</b>	<b>-----</b>	<b>147</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
4650 aluminum ore	6	-----	-----	6	-----	-----	-----
4670 manganese ore	1	-----	-----	1	-----	-----	-----
4690 non-ferrous ores nec	140	-----	-----	140	-----	-----	-----
<b>Subtotal sulphur, clay and salt</b>	<b>1</b>	<b>0</b>	<b>-----</b>	<b>1</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
4782 clay & refrac. mat.	1	0	-----	1	-----	-----	-----
<b>Subtotal other non-metal. min.</b>	<b>157</b>	<b>-----</b>	<b>-----</b>	<b>65</b>	<b>92</b>	<b>92</b>	<b>-----</b>
4900 non-metal. min. nec	157	-----	-----	65	92	92	-----
<b>Total primary manufactured goods</b>	<b>49</b>	<b>-----</b>	<b>17</b>	<b>13</b>	<b>20</b>	<b>20</b>	<b>-----</b>
<b>Subtotal paper products</b>	<b>1</b>	<b>-----</b>	<b>-----</b>	<b>1</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
5120 paper & paperboard	0	-----	-----	0	-----	-----	-----
5190 paper products nec	0	-----	-----	0	-----	-----	-----
<b>Subtotal lime, cement and glass</b>	<b>44</b>	<b>-----</b>	<b>15</b>	<b>10</b>	<b>20</b>	<b>20</b>	<b>-----</b>
5220 cement & concrete	44	-----	15	9	20	20	-----
5240 glass & glass prod.	0	-----	-----	0	-----	-----	-----
5290 misc. mineral prod.	0	-----	-----	0	-----	-----	-----
<b>Subtotal primary iron and steel products</b>	<b>2</b>	<b>-----</b>	<b>-----</b>	<b>2</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
5315 ferro alloys	0	-----	-----	0	-----	-----	-----
5320 i&s primary forms	0	-----	-----	0	-----	-----	-----
5330 i&s plates & sheets	2	-----	-----	2	-----	-----	-----
5360 i&s bars & shapes	0	-----	-----	0	-----	-----	-----
5370 i&s pipe & tube	0	-----	-----	0	-----	-----	-----
5390 primary i&s nec	0	-----	-----	0	-----	-----	-----

BUFFALO HARBOR, NY (INCLUDED IN PORT OF BUFFALO)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic	
		Imports	Imports	Exports		Total	Lakewise
						Receipts	Shipments
<b>Subtotal primary non-ferrous metal products</b>	<b>2</b>			<b>1</b>	<b>0</b>	-----	-----
5421 copper	0	-----	-----	0	-----	-----	-----
5422 aluminum	0	-----	-----	0	-----	-----	-----
5429 smelted prod. nec	0	-----	-----	0	-----	-----	-----
5480 fab. metal products	2	-----	1	0	-----	-----	-----
<b>Subtotal primary wood products</b>	<b>0</b>			<b>0</b>		-----	-----
5540 primary wood prod.	0	-----	-----	0	-----	-----	-----
<b>Total food and farm products</b>	<b>1,078</b>	-----	<b>128</b>	<b>51</b>	<b>899</b>	<b>899</b>	-----
<b>Subtotal fish</b>	<b>0</b>	-----	-----	<b>0</b>	-----	-----	-----
6134 fish (not shellfish)	0	-----	-----	0	-----	-----	-----
<b>Subtotal grain</b>	<b>1,059</b>	-----	<b>128</b>	<b>31</b>	<b>899</b>	<b>899</b>	-----
6241 wheat	1,028	-----	128	31	899	899	-----
6344 corn	31	-----	-----	31	-----	-----	-----
<b>Subtotal vegetable products</b>	<b>0</b>	-----	-----	<b>0</b>	-----	-----	-----
6654 vegetables & prod.	0	-----	-----	0	-----	-----	-----
<b>Subtotal processed grain and animal feed</b>	<b>7</b>	-----	-----	<b>7</b>	-----	-----	-----
6747 grain mill products	0	-----	-----	0	-----	-----	-----
6782 animal feed, prep.	7	-----	-----	7	-----	-----	-----
<b>Subtotal other agricultural products</b>	<b>12</b>	-----	-----	<b>12</b>	-----	-----	-----
6811 meat, fresh, frozen	0	-----	-----	0	-----	-----	-----
6817 meat, prepared	0	-----	-----	0	-----	-----	-----
6822 dairy products	0	-----	-----	0	-----	-----	-----
6856 bananas & plantains	0	-----	-----	0	-----	-----	-----
6858 fruit juices	0	-----	-----	0	-----	-----	-----
6865 molasses	0	-----	-----	0	-----	-----	-----
6871 coffee	0	-----	-----	0	-----	-----	-----
6872 cocoa beans	0	-----	-----	0	-----	-----	-----
6885 alcoholic beverages	11	-----	-----	11	-----	-----	-----
6889 food products nec	0	-----	-----	0	-----	-----	-----
6893 cotton	0	-----	-----	0	-----	-----	-----
<b>Total all manufactured equipment, machinery and products</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>4</b>	-----	-----	-----
7110 machinery (not elec)	3	1	0	3	-----	-----	-----
7120 electrical machinery	0	-----	-----	0	-----	-----	-----
7210 vehicles & parts	0	0	-----	0	-----	-----	-----
7220 aircraft & parts	0	-----	-----	0	-----	-----	-----
7230 ships & boats	0	-----	-----	0	-----	-----	-----
7400 manufac. wood prod.	0	-----	-----	0	-----	-----	-----
7500 textile products	0	-----	-----	0	-----	-----	-----
7600 rubber & plastic pr.	0	0	0	0	-----	-----	-----
7900 manufac. prod. nec	1	0	-----	1	-----	-----	-----

BUFFALO HARBOR, NY (INCLUDED IN PORT OF BUFFALO)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic	
		Imports	Imports	Exports	Total	Lakewise	Receipts
Total unknown or not elsewhere classified	0	-----	0	0	0	-----	-----
9900 unknown or nec	0	-----	0	0	0	-----	-----

## NIAGARA RIVER, NY (INCLUDED IN PORT OF BUFFALO)

Section Included: Black Rock Channel north of the Black Rock Lock and Niagara River to and including American Oil Co. dock, 0.5 mile south of the Tonawanda city line, the northern limit of the Niagara River section of the Port of Buffalo. Controlling and Project Depths: 21 feet.

Comparative Statement of Traffic  
 (thousand tons)

Year	Total	Year	Total		
				1981	1982
1981	456	1986	201		
1982	430	1987	342		
1983	323	1988	196		
1984	364	1989	581		
1985	405	1990	560		

Freight Traffic, 1990  
 (thousand tons)

Commodity	Grand Total	Canadian		Domestic		
		Through		Total	Lakewise	
		Upbound	Downbnd		Receipts	Shipments
<b>Total, all commodities</b>	<b>560</b>	<b>77</b>	<b>161</b>	<b>322</b>	<b>307</b>	<b>15</b>
<b>Total coal</b>	<b>153</b>	<b>10</b>	<b>-----</b>	<b>142</b>	<b>142</b>	<b>-----</b>
1100 coal lignite	142	-----	-----	142	142	-----
1200 coal coke	10	10	-----	-----	-----	-----
<b>Total petroleum and petroleum products</b>	<b>358</b>	<b>60</b>	<b>152</b>	<b>146</b>	<b>131</b>	<b>15</b>
<b>Subtotal petroleum products</b>	<b>358</b>	<b>60</b>	<b>152</b>	<b>146</b>	<b>131</b>	<b>15</b>
2211 gasoline	61	43	-----	18	18	-----
2330 distillate fuel oil	63	63	-----	-----	-----	-----
2340 residual fuel oil	116	38	46	32	18	15
2430 asphalt, tar & pitch	96	-----	-----	96	96	-----
2540 petroleum coke	22	22	-----	-----	-----	-----
<b>Total chemicals and related products</b>	<b>16</b>	<b>7</b>	<b>9</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
<b>Subtotal other chemicals and related products</b>	<b>16</b>	<b>7</b>	<b>9</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
3212 benzene & toluene	5	5	-----	-----	-----	-----
3219 other hydrocarbons	4	4	-----	-----	-----	-----
3274 sodium hydroxide	7	7	-----	-----	-----	-----

NIAGARA RIVER, NY (INCLUDED IN PORT OF BUFFALO)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Grand Total	Canadian		Domestic	
		Through	Total	Lakewise	Shipments
		Upbound	Downbnd	Receipts	
<b>Total crude materials, Inedible except fuels</b>	<b>34</b>	-----	-----	<b>34</b>	<b>34</b> -----
Subtotal soil, sand, gravel, rock and stone	34	-----	-----	34	34 -----
4322 limestone	34	-----	-----	34	34 -----
Total all manufactured equipment, machinery and products	0	-----	0	-----	-----
7110 machinery (not elec)	0	-----	0	-----	-----
<b>Ton-miles (x1000)</b>	<b>4,109</b>		<b>1,287</b>	<b>2,086</b>	<b>118</b>
		618		2,204	
<b>Tons All Traffic (x1000)</b>	<b>560</b>				
<b>Ton-miles All Traffic (x1000)</b>	<b>4,109</b>				

## PORT OF BUFFALO, NY

Section Included: Outer harbor, Lackawanna Canal, Union Canal, Buffalo River from mouth to Conrail RY Bridge 5.5 miles, Buffalo Ship Canal, Black Rock Canal, Black Rock Lock, Black Rock Channel, Niagara River, and Tonawanda to and including Buffalo Oil Terminal, Inc. Dock, located about 2,000 feet north of turning basin, Tonawanda inner Harbor, and Tonawanda Creek Channel from mouth to Main Street Bridge. Controlling and Project Depths: See Buffalo Harbor, Niagara River and Tonawanda.

Comparative Statement of Traffic  
 (thousand tons)

Year	Total	Year	Total
1981	6,181	1986	1,628
1982	3,968	1987	1,423
1983	2,286	1988	1,335
1984	1,854	1989	2,145
1985	1,784	1990	2,563

Freight Traffic, 1990  
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic	
		Imports	Imports	Exports	Total	Lakewise	Shipments
					Receipts		
<b>Total, all commodities</b>	<b>2,563</b>	<b>1</b>	<b>316</b>	<b>728</b>	<b>1,518</b>	<b>1,482</b>	<b>36</b>
<b>Total coal</b>	<b>206</b>	-----	-----	<b>63</b>	<b>142</b>	<b>142</b>	-----
1100 coal lignite	142	-----	-----		142	142	-----
1200 coal coke	63	-----	-----	63	-----	-----	

**PORT OF BUFFALO, NY**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) | | | | | | |

Commodity	Grand Total	Foreign		Canadian		Domestic	
		Imports	Imports	Exports	Total	Lakewise	Shipments
<b>Total petroleum and petroleum products</b>	<b>633</b>			155	303	175	140 36
Subtotal petroleum products	633	-----	155	303	175	140	36
2211 gasoline	72	-----	46	-----	26	26	-----
2330 distillate fuel oil	63	-----	63	1	-----	-----	-----
2340 residual fuel oil	311	-----	46	233	32	18	15
2350 lube oil & greases	0	-----	-----	0	-----	-----	-----
2430 asphalt, tar & pitch	117	-----	-----	-----	117	96	21
2540 petroleum coke	69	-----	-----	69	-----	-----	-----
<b>Total chemicals and related products</b>	<b>26</b>	<b>0</b>	<b>16</b>	<b>9</b>	-----	-----	-----
Subtotal fertilizers	1	-----	-----	1	-----	-----	-----
3190 fert. & mixes nec	1	-----	-----	1	-----	-----	-----
Subtotal other chemicals and related products	25	0	16	9	-----	-----	-----
3212 benzene & toluene	5	-----	5	-----	-----	-----	-----
3219 other hydrocarbons	4	-----	4	-----	-----	-----	-----
3230 carboxylic acids	0	-----	-----	0	-----	-----	-----
3240 nitrogen func. comp.	0	-----	-----	0	-----	-----	-----
3250 organo-inorgan. comp	0	-----	-----	0	-----	-----	-----
3272 sulphuric acid	1	-----	1	-----	-----	-----	-----
3274 sodium hydroxide	7	-----	-----	7	-----	-----	-----
3275 inorg. elem.,oxides, & halogen salts	0	-----	-----	0	-----	-----	-----
3276 metallic salts	7	-----	7	0	-----	-----	-----
3282 pigments & paints	1	-----	-----	1	-----	-----	-----
3283 coloring mat. nec	0	-----	-----	0	-----	-----	-----
3285 perfumes & cleansers	0	-----	0	0	-----	-----	-----
3286 plastics	0	-----	-----	0	-----	-----	-----
3292 starches,gluten,glue	0	0	-----	-----	-----	-----	-----
3299 chem. products nec	0	0	-----	0	-----	-----	-----
<b>Total crude materials, inedible except fuels</b>	<b>565</b>	<b>0</b>	<b>0</b>	<b>284</b>	<b>281</b>	<b>281</b>	<b>-----</b>
Subtotal forest products, wood and chips	0	-----	-----	0	-----	-----	-----
4110 rubber & gums	0	-----	-----	0	-----	-----	-----
4189 lumber	0	-----	-----	0	-----	-----	-----
Subtotal pulp and waste paper	0	-----	-----	0	-----	-----	-----
4225 pulp & waste paper	0	-----	-----	0	-----	-----	-----
Subtotal soil, sand, gravel, rock and stone	234	-----	-----	45	189	189	-----
4322 limestone	139	-----	-----	14	125	125	-----
4331 sand & gravel	95	-----	-----	31	64	64	-----
Subtotal iron ore and scrap	26	-----	0	26	-----	-----	-----
4410 iron ore	26	-----	0	26	-----	-----	-----
Subtotal non-ferrous ores and scrap	147	-----	-----	147	-----	-----	-----
4650 aluminum ore	6	-----	-----	6	-----	-----	-----
4670 manganese ore	1	-----	-----	1	-----	-----	-----

**PORT OF BUFFALO, NY**  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic	
		Imports	Imports	Exports		Total	Lakewise
						Receipts	Shipments
4690 non-ferrous ores nec	140	-----	-----	140	-----	-----	-----
<b>Subtotal sulphur, clay and salt</b>	<b>1</b>	<b>0</b>	-----	1	-----	-----	-----
4782 clay & refrac. mat.	1	0	-----	1	-----	-----	-----
<b>Subtotal other non-metal. min.</b>	<b>157</b>	-----	-----	65	92	92	-----
4900 non-metal. min. nec	157	-----	-----	65	92	92	-----
<b>Total primary manufactured goods</b>	<b>49</b>	-----	17	13	20	20	-----
<b>Subtotal paper products</b>	<b>1</b>	-----	-----	1	-----	-----	-----
5120 paper & paperboard	0	-----	-----	0	-----	-----	-----
5190 paper products nec	0	-----	-----	0	-----	-----	-----
<b>Subtotal lime, cement and glass</b>	<b>44</b>	-----	15	10	20	20	-----
5220 cement & concrete	44	-----	15	9	20	20	-----
5240 glass & glass prod.	0	-----	-----	0	-----	-----	-----
5290 misc. mineral prod.	0	-----	-----	0	-----	-----	-----
<b>Subtotal primary iron and steel products</b>	<b>2</b>	-----	-----	2	-----	-----	-----
5315 ferro alloys	0	-----	-----	0	-----	-----	-----
5320 i&s primary forms	0	-----	-----	0	-----	-----	-----
5330 i&s plates & sheets	2	-----	-----	2	-----	-----	-----
5360 i&s bars & shapes	0	-----	-----	0	-----	-----	-----
5370 i&s pipe & tube	0	-----	-----	0	-----	-----	-----
5390 primary i&s nec	0	-----	-----	0	-----	-----	-----
<b>Subtotal primary non-ferrous metal products</b>	<b>2</b>	-----	1	0	-----	-----	-----
5421 copper	0	-----	-----	0	-----	-----	-----
5422 aluminum	0	-----	-----	0	-----	-----	-----
5429 smelted prod. nec	0	-----	-----	0	-----	-----	-----
5480 fab. metal products	2	-----	1	0	-----	-----	-----
<b>Subtotal primary wood products</b>	<b>0</b>	-----	-----	0	-----	-----	-----
5540 primary wood prod.	0	-----	-----	0	-----	-----	-----
<b>Total food and farm products</b>	<b>1,078</b>	-----	128	51	899	899	-----
<b>Subtotal fish</b>	<b>0</b>	-----	-----	0	-----	-----	-----
6134 fish (not shellfish)	0	-----	-----	0	-----	-----	-----
<b>Subtotal grain</b>	<b>1,059</b>	-----	128	31	899	899	-----
6241 wheat	1,028	-----	128	-----	899	899	-----
6344 corn	31	-----	-----	31	-----	-----	-----
<b>Subtotal vegetable products</b>	<b>0</b>	-----	-----	0	-----	-----	-----
6654 vegetables & prod.	0	-----	-----	0	-----	-----	-----
<b>Subtotal processed grain and animal feed</b>	<b>7</b>	-----	-----	7	-----	-----	-----
6747 grain mill products	0	-----	-----	0	-----	-----	-----
6782 animal feed, prep.	7	-----	-----	7	-----	-----	-----
<b>Subtotal other agricultural products</b>	<b>12</b>	-----	-----	12	-----	-----	-----
6811 meat, fresh, frozen	0	-----	-----	0	-----	-----	-----
6817 meat, prepared	0	-----	-----	0	-----	-----	-----
6822 dairy products	0	-----	-----	0	-----	-----	-----
6856 bananas & plantains	0	-----	-----	0	-----	-----	-----

**PORT OF BUFFALO, NY**  
**Freight Traffic, 1990 - continued**  
**(thousand tons)**

Commodity	Grand Total	Foreign		Canadian		Domestic	
		Imports	Imports	Exports	Total	Lakewise	
			Receipts	Shipments			
6858 fruit juices	0	-----	-----	0	-----	-----	-----
6865 molasses	0	-----	-----	0	-----	-----	-----
6871 coffee	0	-----	-----	0	-----	-----	-----
6872 cocoa beans	0	-----	-----	0	-----	-----	-----
6885 alcoholic beverages	11	-----	-----	11	-----	-----	-----
6889 food products nec	0	-----	-----	0	-----	-----	-----
6893 cotton	0	-----	-----	0	-----	-----	-----
<b>Total all manufactured equipment, machinery and products</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>4</b>	-----	-----	-----
7110 machinery (not elec)	3	1	0	3	-----	-----	-----
7120 electrical machinery	0	-----	-----	0	-----	-----	-----
7210 vehicles & parts	0	0	-----	0	-----	-----	-----
7220 aircraft & parts	0	-----	-----	0	-----	-----	-----
7230 ships & boats	0	-----	-----	0	-----	-----	-----
7400 manufac. wood prod.	0	-----	-----	0	-----	-----	-----
7500 textile products	0	-----	-----	0	-----	-----	-----
7600 rubber & plastic pr.	0	0	0	0	-----	-----	-----
7900 manufac. prod. nec	1	0	-----	1	-----	-----	-----
<b>Total unknown or not elsewhere classified</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	-----	-----	-----
9900 unknown or nec	0	-----	0	0	-----	-----	-----

## OSWEGO HARBOR, NY

Section Included: Outer Harbor and Oswego River from mouth to Seneca Street. Controlling Depths: Lake approach channel, 27 feet; channel through outer harbor, 24 feet; east and west side of outer harbor, 21 feet; Oswego River channel, 24 feet. Project Depths: Lake approach channel, 27 feet; channel through outer harbor, 25 feet; lower 1,600 feet of Oswego River channel, 24 feet; remainder of Oswego River channel and Oswego Harbor, 21 feet.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	1,040	1986	483
1982	542	1987	448
1983	355	1988	531
1984	474	1989	746
1985	525	1990	951

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Foreign	Canadian	Domestic		
		Exports	Imports	Total	Lakewise	Internal
				Receipts	Shipments	
<b>Total, all commodities</b>	<b>950</b>	<b>3</b>	<b>865</b>	<b>82</b>	<b>15</b>	<b>68</b>
<b>Total petroleum and petroleum products</b>	<b>475</b>	-----	<b>461</b>	<b>15</b>	<b>15</b>	-----
<b>Subtotal petroleum products</b>	<b>475</b>	-----	<b>461</b>	<b>15</b>	<b>15</b>	-----
2340 residual fuel oil	475	-----	461	15	15	-----
<b>Total chemicals and related products</b>	<b>63</b>	<b>0</b>	<b>63</b>	-----	-----	-----
<b>Subtotal fertilizers</b>	<b>35</b>	-----	<b>35</b>	-----	-----	-----
3110 nitrogenous fert.	9	-----	9	-----	-----	-----
3130 potassic fert.	26	-----	26	-----	-----	-----
<b>Subtotal other chemicals and related products</b>	<b>28</b>	<b>0</b>	<b>28</b>	-----	-----	-----
3211 acyclic hydrocarbons	1	-----	1	-----	-----	-----
3219 other hydrocarbons	4	0	4	-----	-----	-----
3220 alcohols	0	0	-----	-----	-----	-----
3240 nitrogen func. comp.	0	0	-----	-----	-----	-----
3260 organic comp. nec	1	-----	1	-----	-----	-----
3273 ammonia	0	-----	0	-----	-----	-----
3274 sodium hydroxide	7	-----	7	-----	-----	-----
3275 inorg. elem., oxides, & halogen salts	3	-----	3	-----	-----	-----
3276 metallic salts	11	-----	11	-----	-----	-----
3284 medicines	0	0	-----	-----	-----	-----
3285 perfumes & cleansers	0	0	-----	-----	-----	-----
3286 plastics	1	0	1	-----	-----	-----
3291 pesticides	0	0	-----	-----	-----	-----
3292 starches, gluten, glue	0	0	-----	-----	-----	-----
3299 chem. products nec	0	0	-----	-----	-----	-----
<b>Total crude materials, inedible except fuels</b>	<b>0</b>	<b>0</b>	-----	-----	-----	-----
<b>Subtotal forest products, wood and chips</b>	<b>0</b>	<b>0</b>	-----	-----	-----	-----
4190 forest products nec	0	0	-----	-----	-----	-----

**OSWEGO HARBOR, NY**  
**Freight Traffic, 1990 - continued**  
 (thousand tons)

Commodity	Grand Total	Foreign	Canadian	Domestic		
		Exports	Imports	Total	Lakewise	Internal
				Receipts		Shipments
<b>Subtotal non-ferrous ores and scrap</b>	0	0	-----	-----	-----	-----
4690 non-ferrous ores nec	0	0	-----	-----	-----	-----
<b>Total primary manufactured goods</b>	409	0	341	68	-----	68
<b>Subtotal paper products</b>	0	0	-----	-----	-----	-----
5190 paper products nec	0	0	-----	-----	-----	-----
<b>Subtotal lime, cement and glass</b>	405	0	337	68	-----	68
5220 cement & concrete	405	-----	337	68	-----	68
5290 misc. mineral prod.	0	0	0	-----	-----	-----
<b>Subtotal primary non-ferrous metal products</b>	4	-----	4	-----	-----	-----
5422 aluminum	4	-----	4	-----	-----	-----
<b>Total food and farm products</b>	3	3	-----	-----	-----	-----
<b>Subtotal fish</b>	3	3	-----	-----	-----	-----
6134 fish (not shellfish)	3	3	-----	-----	-----	-----
<b>Subtotal vegetable products</b>	0	0	-----	-----	-----	-----
6654 vegetables & prod.	0	0	-----	-----	-----	-----
<b>Subtotal processed grain and animal feed</b>	0	0	-----	-----	-----	-----
6747 grain mill products	0	0	-----	-----	-----	-----
<b>Subtotal other agricultural products</b>	0	0	-----	-----	-----	-----
6858 fruit juices	0	0	-----	-----	-----	-----
6889 food products nec	0	0	-----	-----	-----	-----
6891 tobacco & products	0	0	-----	-----	-----	-----
<b>Total all manufactured equipment, machinery and products</b>	0	0	0	-----	-----	-----
7110 machinery (not elec)	0	0	-----	-----	-----	-----
7230 ships & boats	0	0	0	-----	-----	-----
7500 textile products	0	0	-----	-----	-----	-----
7600 rubber & plastic pr.	0	0	-----	-----	-----	-----
7900 manufac. prod. nec	0	0	-----	-----	-----	-----

## Other Harbors and Waterways

## Other Harbors and Waterways

Harbor or Waterway	Commodity	Tons Thousand
Project		
OGDENSBURG HARBOR, NY - continued	6889 food products nec 7110 machinery (not elec) 7120 electrical machinery 7900 manufac. prod. nec 9900 unknown or nec	0 0 0 0 0
	<b>Total Tons(x1000)</b>	<b>130</b>
PORt CLINTON HARBOR, OH	4331 sand & gravel	19
	<b>Total Tons(x1000)</b>	<b>19</b>
ROCHESTER (CHARLOTTE) HARBOR, NY	5220 cement & concrete 5480 fab. metal products	211 0
	<b>Total Tons(x1000)</b>	<b>211</b>
SACKETS HARBOR, NY	No Commerce Reported	
TONAWANDA HARBOR, NY (INCLUDED IN PORT OF BUFFALO)	1200 coal coke 2211 gasoline 2330 distillate fuel oil 2340 residual fuel oil 2540 petroleum coke 3212 benzene & toluene 3219 other hydrocarbons 3274 sodium hydroxide 7110 machinery (not elec)	10 43 63 84 22 5 4 7 0
	<b>Total Tons(x1000)</b>	<b>238</b>
VERMILION HARBOR, OH	No Commerce Reported	
WADDINGTON HARBOR, NY	No Commerce Reported	

## ILLINOIS RIVER, IL (INCLUDED IN THE ILLINOIS WATERWAY CONSOLIDATED)

Section Included: Mouth of Illinois River, Grafton, Illinois, to Lockport, Illinois, 291.9 miles. Controlling Depth: 9 feet.  
 Project Depths: 9 feet at low water stages.

Comparative Statement of Traffic  
 (thousand tons)

Year	Total	Year	Total
1981	39,764	1986	39,991
1982	39,472	1987	38,431
1983	41,029	1988	37,816
1984	37,086	1989	36,617
1985	36,535	1990	39,659

Freight Traffic, 1990  
 (thousand tons)

Commodity	Total	Coastwise	
		Through	Downbnd
<b>Total, all commodities</b>	4	4	
<b>Total all manufactured equipment, machinery and products</b>	4	4	
7110 machinery (not elec)	4	4	
<b>Ton-miles (x1000)</b>	<b>1,164</b>		1,164

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
<b>Total, all commodities</b>	<b>39,655</b>	<b>5,951</b>	<b>687</b>	<b>3,129</b>	<b>18,323</b>	<b>7,285</b>	<b>4,047</b>	<b>38</b>	<b>196</b>
<b>Total coal</b>	<b>6,191</b>	<b>1,882</b>	<b>2</b>	<b>1,682</b>	<b>427</b>	<b>1,664</b>	<b>431</b>	-----	<b>104</b>
1100 coal lignite	4,991	1,878	2	1,533	6	1,458	69	-----	45
1200 coal coke	1,201	3	-----	149	421	206	363	-----	58
<b>Total petroleum and petroleum products</b>	<b>4,049</b>	<b>1,237</b>	<b>84</b>	<b>117</b>	<b>605</b>	<b>966</b>	<b>961</b>	-----	<b>81</b>
<b>Subtotal crude petroleum</b>	<b>12</b>	-----	-----	-----	-----	-----	<b>12</b>	-----	-----
2100 crude petroleum	12	-----	-----	-----	-----	-----	12	-----	-----
<b>Subtotal petroleum products</b>	<b>4,037</b>	<b>1,237</b>	<b>84</b>	<b>117</b>	<b>605</b>	<b>966</b>	<b>948</b>	-----	<b>81</b>
2211 gasoline	798	448	33	4	127	79	38	-----	69
2221 kerosene	8	-----	-----	-----	-----	8	-----	-----	-----

**ILLINOIS RIVER, IL (INCLUDED IN THE ILLINOIS WATERWAY CONSOLIDATED)**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) | | | | | | | |

Commodity	Total	Internal							
		Inbound		Outbound		Through			
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd		
2330 distillate fuel oil	683	222	7	-----	149	32	262	12	
2340 residual fuel oil	946	255	25	69	133	135	381	-----	
2350 lube oil & greases	278	4	-----	-----	-----	252	22	-----	
2429 naphtha & solvents	232	27	9	-----	1	163	31	-----	
2430 asphalt, tar & pitch	789	257	9	44	35	193	252	-----	
2540 petroleum coke	287	12	1	-----	160	100	12	-----	
2990 petro. products nec	15	11	-----	-----	-----	4	-----	-----	
<b>Total chemicals and related products</b>	<b>4,633</b>	<b>2,233</b>	<b>90</b>	<b>189</b>	<b>697</b>	<b>1,127</b>	<b>271</b>	<b>27</b> -----	
<b>Subtotal fertilizers</b>	<b>1,292</b>	<b>1,043</b>	<b>19</b>	<b>37</b>	<b>4</b>	<b>175</b>	<b>3</b>	<b>11</b> -----	
3110 nitrogenous fert.	571	375	19	37	4	131	2	2	
3120 phosphatic fert.	66	48	-----	-----	-----	17	-----	-----	
3130 potassic fert.	141	125	-----	-----	-----	7	-----	9	
3190 fert. & mixes nec	515	494	-----	-----	-----	19	2	-----	
<b>Subtotal other chemicals and related products</b>	<b>3,340</b>	<b>1,190</b>	<b>71</b>	<b>152</b>	<b>692</b>	<b>952</b>	<b>267</b>	<b>16</b> -----	
3211 acyclic hydrocarbons	36	18	-----	-----	-----	1	16	-----	
3212 benzene & toluene	99	4	1	-----	-----	18	75	-----	
3219 other hydrocarbons	831	533	61	-----	21	145	70	1	
3220 alcohols	1,150	59	5	152	653	258	22	3	
3230 carboxylic acids	14	-----	-----	-----	14	-----	-----	-----	
3260 organic comp. nec	70	14	-----	-----	-----	47	9	-----	
3273 ammonia	235	228	-----	-----	-----	-----	-----	8	
3274 sodium hydroxide	381	-----	-----	-----	379	1	-----	-----	
3275 inorg. elem., oxides, & halogen salts	50	3	-----	-----	-----	43	4	-----	
3276 metallic salts	246	197	3	-----	-----	0	41	5	
3279 inorganic chem. nec	6	-----	-----	-----	6	-----	-----	-----	
3284 medicines	3	-----	-----	-----	-----	-----	3	-----	
3286 plastics	7	-----	-----	-----	7	-----	-----	-----	
3297 chemical additives	15	7	-----	4	-----	4	-----	-----	
3298 wood & resin chem.	1	-----	-----	-----	-----	1	-----	-----	

ILLINOIS RIVER, IL (INCLUDED IN THE ILLINOIS WATERWAY CONSOLIDATED)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
3299 chem. products nec	197	128	-----	-----	14	34	21	-----	-----
<b>Total crude materials, inedible except fuels</b>	<b>4,416</b>	<b>370</b>	<b>485</b>	<b>1,140</b>	<b>33</b>	<b>1,638</b>	<b>744</b>	<b>6</b>	<b>-----</b>
<b>Subtotal forest products, wood and chips</b>	<b>24</b>	<b>21</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>3</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
4161 wood chips	7	7	-----	-----	-----	-----	-----	-----	-----
4189 lumber	3	-----	-----	-----	-----	3	-----	-----	-----
4190 forest products nec	14	14	-----	-----	-----	-----	-----	-----	-----
<b>Subtotal pulp and waste paper</b>	<b>6</b>	<b>4</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>2</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
4225 pulp & waste paper	6	4	-----	-----	-----	2	-----	-----	-----
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>1,682</b>	<b>72</b>	<b>389</b>	<b>1,134</b>	<b>12</b>	<b>67</b>	<b>4</b>	<b>5</b>	<b>-----</b>
4310 building stone	1	-----	-----	-----	-----	1	-----	-----	-----
4322 limestone	49	34	-----	-----	-----	11	4	-----	-----
4323 gypsum	2	2	-----	-----	-----	-----	-----	-----	-----
4331 sand & gravel	1,631	36	389	1,134	12	55	-----	5	-----
<b>Subtotal iron ore and scrap</b>	<b>1,173</b>	<b>53</b>	<b>78</b>	<b>3</b>	<b>11</b>	<b>365</b>	<b>661</b>	<b>1</b>	<b>-----</b>
4410 iron ore	346	-----	-----	-----	-----	343	3	-----	-----
4420 iron & steel scrap	827	53	78	3	11	23	658	1	-----
<b>Subtotal marine shells</b>	<b>9</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>9</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
4515 marine shells	9	-----	-----	-----	-----	9	-----	-----	-----
<b>Subtotal non-ferrous ores and scrap</b>	<b>128</b>	<b>1</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>126</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
4650 aluminum ore	78	-----	-----	-----	-----	78	-----	-----	-----
4670 manganese ore	36	1	-----	-----	-----	35	-----	-----	-----
4690 non-ferrous ores nec	13	-----	-----	-----	-----	13	-----	-----	-----
<b>Subtotal sulphur, clay and salt</b>	<b>23</b>	<b>12</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>11</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
4782 clay & refrac. mat.	23	12	-----	-----	-----	11	-----	-----	-----
<b>Subtotal slag</b>	<b>195</b>	<b>2</b>	<b>16</b>	<b>-----</b>	<b>9</b>	<b>113</b>	<b>56</b>	<b>-----</b>	<b>-----</b>
4860 slag	195	2	16	-----	9	113	56	-----	-----
<b>Subtotal other non-metal. min.</b>	<b>1,176</b>	<b>205</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>942</b>	<b>24</b>	<b>-----</b>	<b>-----</b>
4900 non-metal. min. nec	1,176	205	2	3	1	942	24	-----	-----

**ILLINOIS RIVER, IL (INCLUDED IN THE ILLINOIS WATERWAY CONSOLIDATED)**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) | | | | | | | |

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
<b>Total primary manufactured goods</b>	<b>2,677</b>	<b>151</b>	<b>1</b>	<b>1</b>	<b>114</b>	<b>1,781</b>	<b>628</b>	-----	-----
Subtotal lime, cement and glass	1,110	101	-----	-----	-----	1,005	4	-----	-----
5210 lime	57	38	-----	-----	-----	17	2	-----	-----
5220 cement & concrete	1,051	63	-----	-----	-----	986	2	-----	-----
5290 misc. mineral prod.	2	-----	-----	-----	-----	1	1	-----	-----
<b>Subtotal primary iron and steel products</b>	<b>1,236</b>	<b>43</b>	<b>1</b>	<b>1</b>	<b>95</b>	<b>623</b>	<b>473</b>	-----	-----
5312 pig iron	100	1	-----	-----	-----	99	-----	-----	-----
5315 ferro alloys	166	3	-----	-----	-----	159	4	-----	-----
5320 i&s primary forms	165	20	-----	-----	9	36	100	-----	-----
5330 i&s plates & sheets	94	-----	1	-----	-----	8	85	-----	-----
5360 i&s bars & shapes	232	15	-----	-----	53	144	19	-----	-----
5370 i&s pipe & tube	16	1	-----	1	-----	11	4	-----	-----
5390 primary i&s nec	463	2	-----	-----	33	166	261	-----	-----
<b>Subtotal primary non-ferrous metal products</b>	<b>329</b>	<b>6</b>	<b>0</b>	-----	<b>19</b>	<b>152</b>	<b>151</b>	-----	-----
5422 aluminum	3	-----	-----	-----	-----	3	-----	-----	-----
5429 smelted prod. nec	14	0	-----	-----	-----	9	5	-----	-----
5480 fab. metal products	312	6	0	-----	19	141	146	-----	-----
<b>Subtotal primary wood products</b>	<b>2</b>	-----	-----	-----	-----	<b>2</b>	-----	-----	-----
5540 primary wood prod.	2	-----	-----	-----	-----	2	-----	-----	-----
<b>Total food and farm products</b>	<b>17,644</b>	<b>76</b>	-----	-----	<b>16,447</b>	<b>99</b>	<b>1,007</b>	<b>4</b>	<b>11</b>
<b>Subtotal grain</b>	<b>12,451</b>	<b>21</b>	-----	-----	<b>11,741</b>	<b>5</b>	<b>673</b>	<b>3</b>	<b>8</b>
6241 wheat	687	-----	-----	-----	613	2	66	-----	6
6344 corn	11,721	2	-----	-----	11,115	-----	600	3	2
6443 barley & rye	15	15	-----	-----	-----	-----	-----	-----	-----
6445 oats	15	5	-----	-----	-----	3	7	-----	-----
6447 sorghum grains	13	-----	-----	-----	13	-----	-----	-----	-----
<b>Subtotal oilseeds</b>	<b>3,291</b>	-----	-----	-----	<b>2,980</b>	-----	<b>306</b>	<b>1</b>	<b>3</b>
6522 soybeans	3,205	-----	-----	-----	2,895	-----	306	1	3
6590 oilseeds nec	86	-----	-----	-----	86	-----	-----	-----	-----

ILLINOIS RIVER, IL (INCLUDED IN THE ILLINOIS WATERWAY CONSOLIDATED)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
<b>Subtotal vegetable products</b>	<b>5</b>	<b>5</b>	-----	-----	-----	-----	-----	-----	-----
6653 vegetable oils	5	5	-----	-----	-----	-----	-----	-----	-----
<b>Subtotal processed grain and animal feed</b>	<b>1,755</b>	<b>19</b>	-----	-----	<b>1,722</b>	-----	<b>14</b>	-----	-----
6746 wheat flour	4	-----	-----	-----	-----	-----	4	-----	-----
6747 grain mill products	135	4	-----	-----	131	-----	-----	-----	-----
6782 animal feed, prep.	1,615	15	-----	-----	1,591	-----	10	-----	-----
<b>Subtotal other agricultural products</b>	<b>141</b>	<b>30</b>	-----	-----	<b>4</b>	<b>94</b>	<b>14</b>	-----	-----
6838 tallow, animal oils	13	-----	-----	-----	-----	-----	13	-----	-----
6861 sugar	61	-----	-----	-----	-----	61	-----	-----	-----
6865 molasses	64	30	-----	-----	1	32	-----	-----	-----
6889 food products nec	3	-----	-----	-----	2	-----	1	-----	-----
<b>Total all manufactured equipment, machinery and products</b>	<b>45</b>	<b>4</b>	<b>26</b>	-----	<b>1</b>	<b>10</b>	<b>5</b>	-----	-----
7110 machinery (not elec)	43	2	26	-----	0	10	5	-----	-----
7210 vehicles & parts	1	-----	-----	-----	1	-----	-----	-----	-----
7500 textile products	2	2	-----	-----	-----	-----	-----	-----	-----
<b>Ton-miles Internal (x1000)</b>	<b>8,261,409</b>	<b>1,162,788</b>	<b>82,081</b>	<b>317,140</b>	<b>3,382,929</b>	<b>2,120,009</b>	<b>1,177,575</b>	<b>3,514</b>	<b>15,372</b>
<b>Tons All Traffic (x1000)</b>					<b>39,659</b>				
<b>Ton-miles All Traffic (x1000)</b>					<b>8,262,573</b>				

CHICAGO SANITARY AND SHIP CANAL, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)

Section Included: Chicago Sanitary and Ship Canal. Damen Avenue, Chicago to Lockport, IL. Project Depth: 9 feet at low water stages.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	21,706	1986	19,524
1982	19,064	1987	16,599
1983	18,749	1988	17,747
1984	15,293	1989	16,908
1985	15,904	1990	18,643

Freight Traffic, 1990  
(thousand tons)

Commodity	Total	Coastwise	
		Shipments	
<b>Total, all commodities</b>	4	4	
<b>Total all manufactured equipment, machinery and products</b>	4	4	
7110 machinery (not elec)	4	4	
<b>Ton-miles (x1000) Coastwise</b>	<b>12</b>		<b>12</b>

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
<b>Total, all commodities</b>	<b>18,639</b>	<b>5,824</b>	<b>820</b>	<b>1,559</b>	<b>2,155</b>	<b>4,929</b>	<b>2,621</b>	<b>560</b>	<b>171</b>
<b>Total coal</b>	<b>3,935</b>	<b>1,258</b>	<b>17</b>	<b>137</b>	<b>297</b>	<b>2,089</b>	<b>136</b>	<b>2</b>	<b>-----</b>
1100 coal lignite	3,061	1,216	-----	137	297	1,775	70	-----	-----
1200 coal coke	874	41	17	-----	-----	314	66	2	-----
<b>Total petroleum and petroleum products</b>	<b>3,403</b>	<b>1,228</b>	<b>534</b>	<b>122</b>	<b>669</b>	<b>108</b>	<b>416</b>	<b>178</b>	<b>148</b>
<b>Subtotal crude petroleum</b>	<b>12</b>	-----	-----	-----	-----	-----	<b>12</b>	-----	-----
2100 crude petroleum	12	-----	-----	-----	-----	-----	12	-----	-----
<b>Subtotal petroleum products</b>	<b>3,390</b>	<b>1,228</b>	<b>534</b>	<b>122</b>	<b>669</b>	<b>108</b>	<b>404</b>	<b>178</b>	<b>148</b>
2211 gasoline	298	98	66	4	28	3	47	-----	53

CHICAGO SANITARY AND SHIP CANAL, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN  
 STATISTICS FOR ILLINOIS WATERWAY)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Total	Internal								
		Inbound		Outbound		Through		Intra		
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	
2221 kerosene	8	7	-----	49	202	1	-----	71	109	50
2330 distillate fuel oil	654	59	115	49	202	-----	71	109	50	
2340 residual fuel oil	845	236	104	56	256	12	126	32	23	
2350 lube oil & greases	282	252	8	-----	-----	-----	22	-----	-----	
2429 naphtha & solvents	246	165	11	11	31	3	9	12	4	
2430 asphalt, tar & pitch	907	366	207	3	142	22	124	24	18	
2540 petroleum coke	146	43	23	-----	9	66	4	-----	-----	
2990 petro. products nec	4	2	-----	-----	-----	1	-----	-----	-----	
<b>Total chemicals and related products</b>	<b>2,003</b>	<b>906</b>	<b>207</b>	<b>22</b>	<b>176</b>	<b>495</b>	<b>185</b>	<b>9</b>	<b>3</b>	
<b>Subtotal fertilizers</b>	<b>248</b>	<b>17</b>	<b>-----</b>	<b>14</b>	<b>-----</b>	<b>195</b>	<b>22</b>	<b>-----</b>	<b>-----</b>	
3110 nitrogenous fert.	203	13	-----	14	-----	156	20	-----	-----	
3120 phosphatic fert.	17	2	-----	-----	-----	15	-----	-----	-----	
3130 potassic fert.	7	2	-----	-----	-----	6	-----	-----	-----	
3190 fert. & mixes nec	21	-----	-----	-----	-----	19	2	-----	-----	
<b>Subtotal other chemicals and related products</b>	<b>1,755</b>	<b>889</b>	<b>207</b>	<b>8</b>	<b>176</b>	<b>300</b>	<b>163</b>	<b>9</b>	<b>3</b>	
3211 acyclic hydrocarbons	18	1	-----	-----	-----	-----	16	-----	-----	
3212 benzene & toluene	138	46	3	8	52	-----	24	3	1	
3219 other hydrocarbons	320	118	12	-----	45	57	86	1	-----	
3220 alcohols	469	292	1	-----	3	145	25	3	0	
3230 carboxylic acids	14	13	-----	-----	-----	1	-----	-----	-----	
3260 organic comp. nec	56	42	-----	-----	-----	5	9	-----	1	
3274 sodium hydroxide	382	311	-----	-----	1	68	-----	1	-----	
3275 inorg. elem., oxides, & halogen salts	48	43	-----	-----	4	-----	-----	-----	-----	
3276 metallic salts	235	0	191	-----	44	-----	-----	-----	-----	
3279 inorganic chem. nec	6	-----	-----	-----	-----	6	-----	-----	-----	
3284 medicines	3	-----	-----	-----	-----	-----	3	-----	-----	
3286 plastics	7	-----	-----	-----	-----	7	-----	-----	-----	
3297 chemical additives	4	-----	-----	-----	4	-----	-----	-----	-----	
3298 wood & resin chem.	1	-----	-----	-----	1	-----	-----	-----	-----	

CHICAGO SANITARY AND SHIP CANAL, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN  
 STATISTICS FOR ILLINOIS WATERWAY)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
3299 chem. products nec	55	22	-----	-----	21	11	-----	-----	-----
<b>Total crude materials, inedible except fuels</b>	<b>5,661</b>	<b>1,501</b>	<b>5</b>	<b>1,276</b>	<b>544</b>	<b>1,278</b>	<b>685</b>	<b>373</b>	<b>-----</b>
<b>Subtotal forest products, wood and chips</b>	<b>3</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>3</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
4189 lumber	3	-----	-----	-----	-----	3	-----	-----	-----
<b>Subtotal pulp and waste paper</b>	<b>2</b>	<b>2</b>	<b>-----</b>						
4225 pulp & waste paper	2	2	-----	-----	-----	-----	-----	-----	-----
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>3,242</b>	<b>1,167</b>	<b>-----</b>	<b>1,276</b>	<b>389</b>	<b>34</b>	<b>4</b>	<b>373</b>	<b>-----</b>
4310 building stone	1	-----	-----	-----	-----	1	-----	-----	-----
4322 limestone	15	-----	-----	-----	-----	11	4	-----	-----
4331 sand & gravel	3,227	1,167	-----	1,276	389	22	-----	373	-----
<b>Subtotal iron ore and scrap</b>	<b>1,109</b>	<b>1</b>	<b>1</b>	<b>-----</b>	<b>140</b>	<b>368</b>	<b>599</b>	<b>-----</b>	<b>-----</b>
4410 iron ore	346	-----	-----	-----	-----	343	3	-----	-----
4420 iron & steel scrap	763	1	1	-----	140	25	596	-----	-----
<b>Subtotal marine shells</b>	<b>9</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>9</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
4515 marine shells	9	-----	-----	-----	-----	9	-----	-----	-----
<b>Subtotal non-ferrous ores and scrap</b>	<b>126</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>126</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
4650 aluminum ore	78	-----	-----	-----	-----	78	-----	-----	-----
4670 manganese ore	35	-----	-----	-----	-----	35	-----	-----	-----
4690 non-ferrous ores nec	13	-----	-----	-----	-----	13	-----	-----	-----
<b>Subtotal sulphur, clay and salt</b>	<b>11</b>	<b>4</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>7</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
4782 clay & refrac. mat.	11	4	-----	-----	-----	7	-----	-----	-----
<b>Subtotal slag</b>	<b>188</b>	<b>-----</b>	<b>3</b>	<b>-----</b>	<b>1</b>	<b>113</b>	<b>71</b>	<b>-----</b>	<b>-----</b>
4860 slag	188	-----	3	-----	1	113	71	-----	-----
<b>Subtotal other non-metal. min.</b>	<b>970</b>	<b>326</b>	<b>-----</b>	<b>-----</b>	<b>14</b>	<b>619</b>	<b>12</b>	<b>-----</b>	<b>-----</b>
4900 non-metal. min. nec	970	326	-----	-----	14	619	12	-----	-----

CHICAGO SANITARY AND SHIP CANAL, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN  
 STATISTICS FOR ILLINOIS WATERWAY)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
<b>Total primary manufactured goods</b>	<b>2,413</b>	<b>894</b>	-----	<b>1</b>	<b>48</b>	<b>888</b>	<b>582</b>	-----	-----
Subtotal lime, cement and glass	1,009	710	-----	-----	-----	295	4	-----	-----
5210 lime	19	-----	-----	-----	-----	17	2	-----	-----
5220 cement & concrete	988	709	-----	-----	-----	278	2	-----	-----
5290 misc. mineral prod.	2	1	-----	-----	-----	-----	1	-----	-----
Subtotal primary iron and steel products	1,099	78	-----	<b>1</b>	<b>46</b>	<b>545</b>	<b>428</b>	-----	-----
5312 pig iron	99	5	-----	-----	-----	95	-----	-----	-----
5315 ferro alloys	163	1	-----	-----	-----	158	4	-----	-----
5320 i&s primary forms	136	-----	-----	-----	45	36	55	-----	-----
5330 i&s plates & sheets	94	6	-----	-----	-----	2	86	-----	-----
5360 i&s bars & shapes	164	34	-----	<b>1</b>	<b>2</b>	<b>110</b>	<b>17</b>	-----	-----
5370 i&s pipe & tube	15	4	-----	0	-----	7	4	-----	-----
5390 primary i&s nec	428	28	-----	-----	-----	139	261	-----	-----
Subtotal primary non-ferrous metal products	303	104	-----	-----	<b>1</b>	<b>48</b>	<b>150</b>	-----	-----
5422 aluminum	3	-----	-----	-----	-----	3	-----	-----	-----
5429 smelted prod. nec	13	2	-----	-----	-----	7	5	-----	-----
5480 fab. metal products	287	102	-----	-----	<b>1</b>	<b>38</b>	<b>145</b>	-----	-----
Subtotal primary wood products	2	2	-----	-----	-----	-----	-----	-----	-----
5540 primary wood prod.	2	2	-----	-----	-----	-----	-----	-----	-----
<b>Total food and farm products</b>	<b>1,106</b>	<b>35</b>	-----	-----	<b>420</b>	<b>64</b>	<b>587</b>	-----	-----
Subtotal grain	678	-----	-----	-----	<b>314</b>	<b>5</b>	<b>359</b>	-----	-----
6241 wheat	68	-----	-----	-----	24	2	42	-----	-----
6344 corn	600	-----	-----	-----	289	-----	311	-----	-----
6445 oats	10	-----	-----	-----	-----	3	7	-----	-----
Subtotal oilseeds	306	-----	-----	-----	<b>106</b>	-----	<b>200</b>	-----	-----
6522 soybeans	306	-----	-----	-----	106	-----	200	-----	-----
Subtotal processed grain and animal feed	14	-----	-----	-----	-----	-----	<b>14</b>	-----	-----
6746 wheat flour	4	-----	-----	-----	-----	-----	4	-----	-----
6782 animal feed, prep.	10	-----	-----	-----	-----	-----	10	-----	-----

CHICAGO SANITARY AND SHIP CANAL, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN  
 STATISTICS FOR ILLINOIS WATERWAY)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
<b>Subtotal other agricultural products</b>	<b>107</b>	<b>35</b>	-----	-----	-----	<b>59</b>	<b>14</b>	-----	-----
6838 tallow, animal oils	13	-----	-----	-----	-----	13	-----	-----	-----
6861 sugar	61	35	-----	-----	-----	27	-----	-----	-----
6865 molasses	32	-----	-----	-----	-----	32	-----	-----	-----
6889 food products nec	1	-----	-----	-----	-----	1	-----	-----	-----
<b>Total all manufactured equipment, machinery and products</b>	<b>41</b>	<b>2</b>	-----	-----	-----	<b>1</b>	<b>7</b>	<b>30</b>	-----
7110 machinery (not elec)	41	2	-----	-----	-----	1	7	30	-----
<b>Total waste and scrap nec</b>	<b>78</b>	-----	<b>58</b>	-----	-----	-----	-----	-----	<b>20</b>
8900 waste and scrap nec	78	-----	58	-----	-----	-----	-----	-----	20
<b>Ton-miles Internal (x1000)</b>	<b>233,211</b>	<b>63,498</b>	<b>9,639</b>	<b>36,673</b>	<b>19,193</b>	<b>63,867</b>	<b>27,619</b>	<b>9,985</b>	<b>2,738</b>
<b>Tons All Traffic (x1000)</b>					<b>18,643</b>				
<b>Ton-miles All Traffic (x1000)</b>						<b>233,224</b>			

CALUMET-SAG CHANNEL, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)

Section Included: Calumet-Sag Channel from its junction with Chicago Sanitary and Ship Canal to Blue Island, Little Calumet and Calumet Rivers to Turning Basin No. 5 (130th Street Bridge). Project Depth: 9 feet.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	6,842	1986	7,503
1982	5,442	1987	6,127
1983	6,445	1988	7,075
1984	5,578	1989	6,544
1985	5,829	1990	7,621

Freight Traffic, 1990  
(thousand tons)

Commodity	Grand Total	Internal					
		Inbound		Outbound		Through	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
<b>Total, all commodities</b>	<b>7,621</b>	<b>298</b>	<b>126</b>	<b>37</b>	<b>686</b>	<b>4,065</b>	<b>2,404</b>
<b>Total coal</b>	<b>1,969</b>	<b>4</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>1,813</b>	<b>151</b>
1100 coal lignite	1,436	-----	-----	-----	-----	1,366	70
1200 coal coke	533	4	-----	-----	-----	447	81
<b>Total petroleum and petroleum products</b>	<b>1,068</b>	<b>74</b>	<b>34</b>	<b>37</b>	<b>674</b>	<b>84</b>	<b>161</b>
<b>Subtotal crude petroleum</b>	<b>12</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>12</b>	<b>-----</b>	<b>-----</b>
2100 crude petroleum	12	-----	-----	-----	12	-----	-----
<b>Subtotal petroleum products</b>	<b>1,056</b>	<b>74</b>	<b>34</b>	<b>37</b>	<b>661</b>	<b>84</b>	<b>161</b>
2211 gasoline	170	6	34	7	108	1	14
2221 kerosene	1	1	-----	-----	-----	-----	-----
2330 distillate fuel oil	124	5	-----	2	41	-----	71
2340 residual fuel oil	215	31	-----	9	154	4	17
2350 lube oil & greases	22	-----	-----	-----	-----	-----	22
2429 naphtha & solvents	57	11	-----	19	3	3	21
2430 asphalt, tar & pitch	382	18	-----	-----	341	10	13
2540 petroleum coke	84	-----	-----	-----	13	66	4
2990 petro. products nec	1	1	-----	-----	-----	-----	-----
<b>Total chemicals and related products</b>	<b>879</b>	<b>148</b>	<b>92</b>	<b>-----</b>	<b>7</b>	<b>352</b>	<b>280</b>
<b>Subtotal fertilizers</b>	<b>212</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>190</b>	<b>22</b>
3110 nitrogenous fert.	171	-----	-----	-----	-----	151	20
3120 phosphatic fert.	15	-----	-----	-----	-----	15	-----
3130 potassic fert.	6	-----	-----	-----	-----	6	-----
3190 fert. & mixes nec	21	-----	-----	-----	-----	19	2
<b>Subtotal other chemicals and related products</b>	<b>666</b>	<b>148</b>	<b>92</b>	<b>-----</b>	<b>7</b>	<b>162</b>	<b>258</b>
3211 acyclic hydrocarbons	16	-----	-----	-----	-----	-----	16
3212 benzene & toluene	63	8	-----	-----	1	-----	53
3219 other hydrocarbons	186	6	-----	-----	3	52	126
3220 alcohols	289	89	89	-----	-----	57	54

CALUMET-SAG CHANNEL, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN STATISTICS  
 FOR ILLINOIS WATERWAY)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Grand Total	Internal					
		Inbound		Outbound		Through	Intra
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
3230 carboxylic acids	1	-----	-----	-----	-----	1	-----
3260 organic comp. nec	16	-----	2	-----	-----	5	9
3274 sodium hydroxide	68	41	-----	-----	-----	27	-----
3279 inorganic chem. nec	6	-----	-----	-----	-----	6	-----
3284 medicines	3	-----	-----	-----	3	-----	-----
3286 plastics	7	-----	-----	-----	-----	7	-----
3299 chem. products nec	11	4	-----	-----	-----	8	-----
<b>Total crude materials, inedible except fuels</b>	<b>1,690</b>	<b>23</b>	<b>-----</b>	<b>4</b>	<b>1,041</b>	<b>622</b>	<b>-----</b>
<b>Subtotal forest products, wood and chips</b>	<b>3</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>3</b>	<b>-----</b>
4189 lumber	3	-----	-----	-----	-----	3	-----
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>24</b>	<b>12</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>8</b>	<b>4</b>
4310 building stone	1	-----	-----	-----	-----	1	-----
4322 limestone	15	11	-----	-----	-----	4	-----
4331 sand & gravel	8	1	-----	-----	-----	7	-----
<b>Subtotal iron ore and scrap</b>	<b>908</b>	<b>3</b>	<b>-----</b>	<b>4</b>	<b>364</b>	<b>536</b>	<b>-----</b>
4410 iron ore	346	2	-----	-----	-----	341	3
4420 iron & steel scrap	562	2	-----	4	23	534	-----
<b>Subtotal marine shells</b>	<b>9</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>9</b>	<b>-----</b>
4515 marine shells	9	-----	-----	-----	-----	9	-----
<b>Subtotal non-ferrous ores and scrap</b>	<b>126</b>	<b>3</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>123</b>	<b>-----</b>
4650 aluminum ore	78	-----	-----	-----	-----	78	-----
4670 manganese ore	35	3	-----	-----	-----	32	-----
4690 non-ferrous ores nec	13	-----	-----	-----	-----	13	-----
<b>Subtotal sulphur, clay and salt</b>	<b>5</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>5</b>	<b>-----</b>
4782 clay & refrac. mat.	5	-----	-----	-----	-----	5	-----
<b>Subtotal slag</b>	<b>187</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>113</b>	<b>74</b>
4860 slag	187	-----	-----	-----	-----	113	74
<b>Subtotal other non-metal. min.</b>	<b>428</b>	<b>5</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>416</b>	<b>8</b>
4900 non-metal. min. nec	428	5	-----	-----	-----	416	8
<b>Total primary manufactured goods</b>	<b>1,334</b>	<b>32</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>720</b>	<b>582</b>
<b>Subtotal lime, cement and glass</b>	<b>167</b>	<b>2</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>161</b>	<b>4</b>
5210 lime	19	2	-----	-----	-----	16	2
5220 cement & concrete	147	-----	-----	-----	-----	146	2
5290 misc. mineral prod.	1	-----	-----	-----	-----	1	-----
<b>Subtotal primary Iron and steel products</b>	<b>970</b>	<b>30</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>513</b>	<b>428</b>
5312 pig iron	95	30	-----	-----	-----	65	-----
5315 ferro alloys	161	-----	-----	-----	-----	158	4
5320 i&s primary forms	91	-----	-----	-----	-----	36	55

CALUMET-SAG CHANNEL, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN STATISTICS  
FOR ILLINOIS WATERWAY)  
Freight Traffic, 1990 - continued  
(thousand tons)

Commodity	Grand Total	Internal					
		Inbound		Outbound		Through	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
5330 i&s plates & sheets	88	-----	-----	-----	-----	2	86 -----
5360 i&s bars & shapes	125	-----	-----	-----	-----	108	17 -----
5370 i&s pipe & tube	10	-----	-----	-----	-----	6	4 -----
5390 primary i&s nec	400	-----	-----	-----	-----	139	261 -----
<b>Subtotal primary non-ferrous metal products</b>	<b>196</b>	-----	-----	-----	-----	<b>47</b>	<b>150</b> -----
5422 aluminum	3	-----	-----	-----	-----	3	-----
5429 smelted prod. nec	10	-----	-----	-----	-----	5	5 -----
5480 fab. metal products	183	-----	-----	-----	-----	38	145 -----
<b>Total food and farm products</b>	<b>644</b>	<b>17</b>	-----	-----	<b>1</b>	<b>47</b>	<b>579</b> -----
<b>Subtotal grain</b>	<b>364</b>	-----	-----	-----	-----	<b>5</b>	<b>359</b> -----
6241 wheat	43	-----	-----	-----	-----	2	42 -----
6344 corn	311	-----	-----	-----	-----	-----	311 -----
6445 oats	10	-----	-----	-----	-----	3	7 -----
<b>Subtotal oilseeds</b>	<b>200</b>	-----	-----	-----	-----	<b>200</b>	<b>200</b> -----
6522 soybeans	200	-----	-----	-----	-----	-----	-----
<b>Subtotal processed grain and animal feed</b>	<b>14</b>	-----	-----	-----	-----	<b>14</b>	-----
6746 wheat flour	4	-----	-----	-----	-----	-----	4 -----
6782 animal feed, prep.	10	-----	-----	-----	-----	-----	10 -----
<b>Subtotal other agricultural products</b>	<b>66</b>	<b>17</b>	-----	-----	<b>1</b>	<b>42</b>	<b>5</b> -----
6838 tallow, animal oils	6	-----	-----	-----	-----	1	-----
6861 sugar	27	-----	-----	-----	-----	-----	4 -----
6865 molasses	32	-----	<b>17</b>	-----	-----	27	-----
6889 food products nec	1	-----	-----	-----	-----	15	-----
<b>Total all manufactured equipment, machinery and products</b>	<b>37</b>	-----	-----	-----	-----	<b>7</b>	<b>30</b> -----
7110 machinery (not elec)	37	-----	-----	-----	-----	7	30 -----
<b>Ton-miles (x1000)</b>	<b>170,760</b>	<b>4,756</b>	<b>1,248</b>	<b>376</b>	<b>9,103</b>	<b>97,564</b>	<b>57,693</b>
<b>Tons All Traffic (x1000)</b>					<b>7,621</b>		
<b>Ton-miles All Traffic (x1000)</b>					<b>170,762</b>		

## ILLINOIS WATERWAY, IL (CONSOLIDATED REPORT FOR ENTIRE WATERWAY)

Section Included: Illinois River, Grafton, IL to confluence of Desplaines and Kankakee Rivers then Desplaines River to Lockport, IL.; Chicago Sanitary and Ship Canal, Lockport, IL to Damen Ave. in Chicago; Chicago River (South Branch), Damen Avenue to Lake Street; Calumet-Sag Channel, from its junction with the Chicago Sanitary and Ship Canal to Blue Island; and the Little Calumet River and Calumet River to Turning Basin No. 5 (130th Street Bridge). See reports for Illinois River, Chicago Sanitary and Ship Canal, Calumet-Sag Channel, and Chicago River, South Branch. Project Depth: 9 feet at low water stages.

Comparative Statement of Traffic  
(thousand tons)

Year	Total	Year	Total
1981	43,111	1986	43,427
1982	42,719	1987	41,412
1983	43,513	1988	40,973
1984	39,631	1989	39,672
1985	38,531	1990	43,318

Freight Traffic, 1990  
(thousand tons)

Commodity	Total	Coastwise	
		Shipments	
<b>Total, all commodities</b>		<b>4</b>	<b>4</b>
<b>Total all manufactured equipment, machinery and products</b>		<b>4</b>	<b>4</b>
7110 machinery (not elec)		4	4
<b>Ton-miles (x1000) Coastwise</b>		<b>1,176</b>	<b>1,176</b>

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
<b>Total, all commodities</b>	<b>43,314</b>	<b>9,282</b>	<b>1,001</b>	<b>1,575</b>	<b>20,284</b>	<b>4,055</b>	<b>2,096</b>	<b>4,021</b>	<b>1,000</b>
Total coal	6,347	2,018	18	287	723	1,528	135	1,534	104
1100 coal lignite	4,991	1,970	2	—	6	1,367	69	1,533	45
1200 coal coke	1,356	49	17	287	717	161	66	2	58
<b>Total petroleum and petroleum products</b>	<b>5,401</b>	<b>2,147</b>	<b>433</b>	<b>152</b>	<b>1,459</b>	<b>70</b>	<b>117</b>	<b>574</b>	<b>449</b>
<b>Subtotal crude petroleum</b>	<b>12</b>	—	—	—	—	12	—	—	—
2100 crude petroleum	12	—	—	—	—	12	—	—	—

**ILLINOIS WATERWAY, IL (CONSOLIDATED REPORT FOR ENTIRE WATERWAY)**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) |

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
<b>Subtotal petroleum products</b>	<b>5,389</b>	<b>2,147</b>	<b>433</b>	<b>152</b>	<b>1,447</b>	<b>70</b>	<b>117</b>	<b>574</b>	<b>449</b>
2211 gasoline	984	526	49	11	158	1	7	26	206
2221 kerosene	8	—	—	—	—	—	—	—	—
2330 distillate fuel oil	1,044	259	108	49	351	—	60	142	76
2340 residual fuel oil	1,241	395	104	67	458	—	11	159	47
2350 lube oil & greases	286	256	8	—	—	—	22	—	—
2429 naphtha & solvents	294	192	16	19	33	3	—	23	8
2430 asphalt, tar & pitch	1,198	450	129	7	280	—	13	215	105
2540 petroleum coke	319	47	19	—	168	66	4	9	6
2990 petro. products nec	15	15	—	—	—	—	—	—	—
<b>Total chemicals and related products</b>	<b>5,052</b>	<b>3,125</b>	<b>371</b>	<b>51</b>	<b>863</b>	<b>320</b>	<b>105</b>	<b>197</b>	<b>19</b>
<b>Subtotal fertilizers</b>	<b>1,306</b>	<b>1,060</b>	<b>19</b>	<b>51</b>	<b>4</b>	<b>158</b>	<b>3</b>	<b>11</b>	<b>—</b>
3110 nitrogenous fert.	585	388	19	51	4	118	2	2	—
3120 phosphatic fert.	66	51	—	—	—	15	—	—	—
3130 potassic fert.	141	126	—	—	—	6	—	9	—
3190 fert. & mixes nec	515	494	—	—	—	19	2	—	—
<b>Subtotal other chemicals and related products</b>	<b>3,746</b>	<b>2,066</b>	<b>353</b>	<b>—</b>	<b>858</b>	<b>162</b>	<b>102</b>	<b>186</b>	<b>19</b>
3211 acyclic hydrocarbons	36	20	—	—	—	—	16	—	—
3212 benzene & toluene	142	51	3	—	52	—	22	11	3
3219 other hydrocarbons	875	657	61	—	57	52	34	3	12
3220 alcohols	1,273	287	96	—	655	57	20	159	0
3230 carboxylic acids	14	13	—	—	—	1	—	—	—
3260 organic comp. nec	73	56	2	—	—	5	9	—	1
3273 ammonia	235	228	—	—	—	—	—	8	—
3274 sodium hydroxide	382	352	—	—	1	27	—	1	—
3275 inorg. elem., oxides, & halogen salts	50	46	—	—	4	—	—	—	—
3276 metallic salts	436	197	191	—	41	—	—	5	3

ILLINOIS WATERWAY, IL (CONSOLIDATED REPORT FOR ENTIRE WATERWAY)  
 Freight Traffic, 1990 - continued  
 (thousand tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
3279 inorganic chem. nec	6	—	—	—	—	6	—	—	—
3284 medicines	3	—	—	—	3	—	—	—	—
3286 plastics	7	—	—	—	—	7	—	—	—
3297 chemical additives	15	7	—	—	8	—	—	—	—
3298 wood & resin chem.	1	—	—	—	1	—	—	—	—
3299 chem. products nec	197	154	—	—	35	8	—	—	—
<b>Total crude materials, inedible except fuels</b>	<b>6,069</b>	<b>779</b>	<b>93</b>	<b>1,084</b>	<b>207</b>	<b>1,229</b>	<b>570</b>	<b>1,711</b>	<b>397</b>
<b>Subtotal forest products, wood and chips</b>	<b>24</b>	<b>21</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>3</b>	<b>—</b>	<b>—</b>	<b>—</b>
4161 wood chips	7	7	—	—	—	—	—	—	—
4189 lumber	3	—	—	—	—	3	—	—	—
4190 forest products nec	14	14	—	—	—	—	—	—	—
<b>Subtotal pulp and waste paper</b>	<b>6</b>	<b>6</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>
4225 pulp & waste paper	6	6	—	—	—	—	—	—	—
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>3,331</b>	<b>131</b>	<b>—</b>	<b>1,082</b>	<b>12</b>	<b>8</b>	<b>4</b>	<b>1,706</b>	<b>389</b>
4310 building stone	1	—	—	—	—	1	—	—	—
4322 limestone	49	45	—	—	—	—	4	—	—
4323 gypsum	2	2	—	—	—	—	—	—	—
4331 sand & gravel	3,279	85	—	1,082	12	7	—	1,706	389
<b>Subtotal Iron ore and scrap</b>	<b>1,175</b>	<b>57</b>	<b>75</b>	<b>2</b>	<b>169</b>	<b>362</b>	<b>503</b>	<b>3</b>	<b>5</b>
4410 iron ore	346	2	—	—	—	341	—	3	—
4420 iron & steel scrap	829	55	75	2	169	21	500	3	5
<b>Subtotal marine shells</b>	<b>9</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>9</b>	<b>—</b>	<b>—</b>	<b>—</b>
4515 marine shells	9	—	—	—	—	—	—	—	—
<b>Subtotal non-ferrous ores and scrap</b>	<b>128</b>	<b>4</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>123</b>	<b>—</b>	<b>—</b>	<b>—</b>
4650 aluminum ore	78	—	—	—	—	78	—	—	—
4670 manganese ore	36	4	—	—	—	32	—	—	—
4690 non-ferrous ores nec	13	—	—	—	—	13	—	—	—
<b>Subtotal sulphur, clay and salt</b>	<b>23</b>	<b>18</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>5</b>	<b>—</b>	<b>—</b>	<b>—</b>
4782 clay & refrac. mat.	23	18	—	—	—	5	—	—	—

**ILLINOIS WATERWAY, IL (CONSOLIDATED REPORT FOR ENTIRE WATERWAY)**  
**Freight Traffic, 1990 - continued**  
(thousand tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
<b>Subtotal slag</b>	<b>198</b>	<b>2</b>	<b>18</b>	-----	9	113	56	-----	1
4860 slag	198	2	18	-----	9	113	56	-----	1
<b>Subtotal other non-metal. min.</b>	<b>1,176</b>	<b>540</b>	-----	-----	<b>18</b>	<b>606</b>	<b>8</b>	<b>3</b>	<b>2</b>
4900 non-metal. min. nec	1,176	540	-----	-----	18	606	8	3	2
<b>Total primary manufactured goods</b>	<b>2,678</b>	<b>1,079</b>	<b>1</b>	<b>1</b>	<b>162</b>	<b>854</b>	<b>580</b>	<b>1</b>	-----
<b>Subtotal lime, cement and glass</b>	<b>1,110</b>	<b>814</b>	-----	-----	-----	<b>292</b>	<b>4</b>	-----	-----
5210 lime	57	39	-----	-----	-----	16	2	-----	-----
5220 cement & concrete	1,051	774	-----	-----	-----	276	2	-----	-----
5290 misc. mineral prod.	2	1	-----	-----	-----	-----	1	-----	-----
<b>Subtotal primary iron and steel products</b>	<b>1,237</b>	<b>152</b>	<b>1</b>	<b>1</b>	<b>141</b>	<b>515</b>	<b>427</b>	<b>1</b>	-----
5312 pig iron	100	36	-----	-----	-----	65	-----	-----	-----
5315 ferro alloys	166	4	-----	-----	-----	158	4	-----	-----
5320 i&s primary forms	165	20	-----	-----	54	36	55	-----	-----
5330 i&s plates & sheets	94	6	1	-----	-----	2	85	-----	-----
5360 i&s bars & shapes	233	49	-----	1	55	110	17	-----	-----
5370 i&s pipe & tube	16	6	-----	0	-----	6	4	1	-----
5390 primary i&s nec	463	30	-----	-----	33	139	261	-----	-----
<b>Subtotal primary non-ferrous metal products</b>	<b>329</b>	<b>111</b>	<b>0</b>	-----	<b>21</b>	<b>48</b>	<b>149</b>	-----	-----
5422 aluminum	3	-----	-----	-----	-----	3	-----	-----	-----
5429 smelted prod. nec	14	2	-----	-----	-----	7	5	-----	-----
5480 fab. metal products	312	108	0	-----	21	38	145	-----	-----
<b>Subtotal primary wood products</b>	<b>2</b>	<b>2</b>	-----	-----	-----	-----	-----	-----	-----
5540 primary wood prod.	2	2	-----	-----	-----	-----	-----	-----	-----
<b>Total food and farm products</b>	<b>17,644</b>	<b>128</b>	-----	-----	<b>16,868</b>	<b>47</b>	<b>586</b>	<b>4</b>	<b>11</b>
<b>Subtotal grain</b>	<b>12,451</b>	<b>21</b>	-----	-----	<b>12,055</b>	<b>5</b>	<b>359</b>	<b>3</b>	<b>8</b>
6241 wheat	687	-----	-----	-----	638	2	42	-----	6
6344 corn	11,721	2	-----	-----	11,404	-----	311	3	2
6443 barley & rye	15	15	-----	-----	-----	3	7	-----	-----
6445 oats	15	5	-----	-----	-----	-----	-----	-----	-----
6447 sorghum grains	13	-----	-----	-----	13	-----	-----	-----	-----

**ILLINOIS WATERWAY, IL (CONSOLIDATED REPORT FOR ENTIRE WATERWAY)**  
**Freight Traffic, 1990 - continued**  
 (thousand tons) | | | | | | |

Commodity	Total	Internal					
		Inbound		Outbound		Through	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
<b>Subtotal oilseeds</b>	<b>3,291</b>	-----	-----	3,086	-----	200	1 3
6522 soybeans	3,205	-----	-----	3,001	-----	200	1 3
6590 oilseeds nec	86	-----	-----	86	-----	-----	-----
<b>Subtotal vegetable products</b>	<b>5</b>	5	-----	-----	-----	-----	-----
6653 vegetable oils	5	5	-----	-----	-----	-----	-----
<b>Subtotal processed grain and animal feed</b>	<b>1,755</b>	19	-----	1,722	-----	14	-----
6746 wheat flour	4	-----	-----	-----	-----	4	-----
6747 grain mill products	135	4	-----	131	-----	-----	-----
6782 animal feed, prep.	1,615	15	-----	1,591	-----	10	-----
<b>Subtotal other agricultural products</b>	<b>141</b>	82	-----	5	42	12	-----
6838 tallow, animal oils	13	-----	-----	1	-----	11	-----
6861 sugar	61	35	-----	-----	27	-----	-----
6865 molasses	64	47	-----	1	15	-----	-----
6889 food products nec	3	-----	-----	2	-----	1	-----
<b>Total all manufactured equipment, machinery and products</b>	<b>45</b>	6	26	-----	2	7	4
7110 machinery (not elec)	43	4	26	-----	1	7	4
7210 vehicles & parts	1	-----	-----	-----	1	-----	-----
7500 textile products	2	2	-----	-----	-----	-----	-----
<b>Total waste and scrap nec</b>	<b>78</b>	-----	58	-----	-----	-----	20
8900 waste and scrap nec	78	-----	58	-----	-----	-----	20
<b>Ton-miles Internal (x1000)</b>	<b>8,677,140</b>	41,655	52,677	3,974,673	1,317,920	681,259	368,710
<b>Tons All Traffic (x1000)</b>		43,318	8,678,320				85,454

## **Section 2**

### **Trips and Drafts of Vessels**



Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**TWO HARBORS (AGATE BAY), MN**

	Inbound						Outbound					
Grand Total	270	264	6	---	---	---	281	275	6	---	---	---
<b>DOMESTIC</b>												
Total	270	264	6	---	---	---	281	275	6	---	---	---
31	-----	-----	-----	-----	-----	-----	8	8	-----	-----	-----	-----
30	-----	-----	-----	-----	-----	-----	1	1	-----	-----	-----	-----
28	8	8	-----	-----	-----	-----	22	22	-----	-----	-----	-----
27	5	5	-----	-----	-----	-----	166	166	-----	-----	-----	-----
26	-----	-----	-----	-----	-----	-----	64	64	-----	-----	-----	-----
25	21	21	-----	-----	-----	-----	8	8	-----	-----	-----	-----
24	52	52	-----	-----	-----	-----	2	2	-----	-----	-----	-----
23	50	50	-----	-----	-----	-----	3	3	-----	-----	-----	-----
22	17	17	-----	-----	-----	-----	1	1	-----	-----	-----	-----
21	24	24	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
20	36	36	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
19	25	25	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
18	18	18	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
17	4	4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
15	4	4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
13	1	-----	1	-----	-----	-----	6	-----	6	-----	-----	-----
≤ 12	5	-----	5	-----	-----	-----	6	-----	6	-----	-----	-----
<b>Total trips:</b>												<b>551</b>

**DULUTH-SUPERIOR HARBOR, MN AND WI**

	Inbound						Outbound					
Grand Total	2,476	1,307	257	316	586	10	2,484	1,316	260	312	586	10
<b>FOREIGN</b>												
Total	458	453	3	1	1	-----	450	444	4	1	1	-----
27	-----	-----	-----	-----	-----	-----	14	14	-----	-----	-----	-----
26	5	5	-----	-----	-----	-----	184	184	-----	-----	-----	-----
25	7	7	-----	-----	-----	-----	7	7	-----	-----	-----	-----
24	10	10	-----	-----	-----	-----	6	6	-----	-----	-----	-----
23	33	32	1	-----	-----	-----	34	33	1	-----	-----	-----
22	59	59	-----	-----	-----	-----	9	9	-----	-----	-----	-----
21	53	51	2	-----	-----	-----	4	4	-----	-----	-----	-----
20	70	70	-----	-----	-----	-----	13	13	-----	-----	-----	-----
19	16	16	-----	-----	-----	-----	5	5	-----	-----	-----	-----
18	35	35	-----	-----	-----	-----	5	5	-----	-----	-----	-----
17	2	2	-----	-----	-----	-----	2	1	1	-----	-----	-----
16	160	160	-----	-----	-----	-----	4	2	2	-----	-----	-----
15	2	2	-----	-----	-----	-----	3	3	-----	-----	-----	-----
14	4	4	-----	-----	-----	-----	158	158	-----	-----	1	1
≤ 12	2	-----	-----	1	1	-----	2	-----	-----	1	-----	-----

## Trips and Drafts of Vessels, 1990 (draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

## **DULUTH-SUPERIOR HARBOR - continued**

## Outbound

## **DOMESTIC**

TACONITE HARBOR, MN

## Inbound

## Outbound

## **FOREIGN**

Total 2 | 1 | 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---  
22 | 1 | 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---  
21 | 1 | 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---

## **DOMESTIC**



WCSC: GREAT LAKES

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels				Self Propelled Vessels				Non-Self Propelled Vessels			
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker				

**PORT WING HARBOR, WI**  
No Vessel Trips Reported

**WARROAD HARBOR, MN**  
No Vessel Trips Reported

**SILVER BAY, MN**  
(29 feet and less)

	Inbound							Outbound						
<b>Grand Total</b>	90	90	----	----	----	----	87	87	----	----	----	----	<b>Total trips:</b>	177

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**WAUKEGAN HARBOR, IL**

Grand Total	Inbound						Outbound					
	72	71	---	---	1	---	72	71	---	---	1	---
<b>DOMESTIC</b>												
Total	72	71	---	---	1	---	72	71	---	---	1	---
20	9	9	---	---	1	---	72	71	---	---	1	---
19	19	18	---	---	1	---	72	71	---	---	1	---
18	8	8	---	---	1	---	72	71	---	---	1	---
17	8	8	---	---	1	---	72	71	---	---	1	---
16	15	15	---	---	1	---	72	71	---	---	1	---
15	9	9	---	---	1	---	72	71	---	---	1	---
14	3	3	---	---	1	---	72	71	---	---	1	---
13	1	1	---	---	1	---	72	71	---	---	1	---
≤ 12	---	---	---	---	1	---	72	71	---	---	1	---
<b>Total trips:</b>												<b>144</b>

**CHICAGO RIVER (MAIN AND NORTH BRANCH), IL**

Grand Total	Upbound						Downbound					
	1,873	162	---	406	1,068	237	4,078	2,413	---	366	1,068	231
<b>DOMESTIC</b>												
Total	1,873	162	---	406	1,068	237	4,078	2,413	---	366	1,068	231
≤ 12	1,873	162	---	406	1,068	237	4,078	2,413	---	366	1,068	231
<b>Total trips:</b>												<b>5,951</b>

**CHICAGO RIVER, SOUTH BRANCH, IL**

Grand Total	Upbound						Downbound					
	3,960	2,024	---	325	1,397	214	1,994	---	---	359	1,390	245
<b>DOMESTIC</b>												
Total	3,960	2,024	---	325	1,397	214	1,994	---	---	359	1,390	245
≤ 12	3,960	2,024	---	325	1,397	214	1,994	---	---	359	1,390	245
<b>Total trips:</b>												<b>5,954</b>

**LAKE CALUMET, IL**

Grand Total	Upbound						Downbound					
	656	24	56	60	345	171	648	21	55	58	345	169
<b>FOREIGN</b>												
Total	50	8	40	1	---	1	46	6	40	---	---	---

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**LAKE CALUMET - continued**

Upbound

Downbound

**FOREIGN**

27	10	1	9	---	---	---	1	---	---	---	---	---
26	9	---	9	---	---	---	2	1	1	---	---	---
25	---	---	---	---	---	---	11	1	10	---	---	---
24	7	4	3	---	---	---	6	3	3	---	---	---
23	3	1	2	---	---	---	1	---	1	---	---	---
22	5	1	4	---	---	---	7	---	7	---	---	---
21	4	---	4	---	---	---	3	1	2	---	---	---
20	8	1	7	---	---	---	9	---	9	---	---	---
19	1	---	1	---	---	1	2	---	2	---	---	---
17	1	---	---	1	---	---	1	---	1	---	---	---
16	1	---	---	1	---	---	3	---	3	---	---	---
15	---	---	---	---	---	---	3	---	3	---	---	---
≤ 12	1	---	1	---	---	---	3	---	3	---	---	---

**DOMESTIC**

Total	606	16	16	59	345	170	602	15	15	58	345	169
22	4	4	---	---	---	---	---	---	---	---	---	---
21	11	9	2	---	---	---	---	---	---	---	---	---
20	3	1	2	---	---	---	1	1	1	---	---	---
17	9	1	8	---	---	---	4	4	4	---	---	---
16	4	1	3	---	---	---	3	3	3	---	---	---
15	---	---	---	1	---	---	8	7	7	1	---	---
14	1	---	---	1	---	---	47	---	15	25	7	---
13	28	---	1	27	345	170	539	---	---	32	338	169
≤ 12	546	---	---	31	---	---	---	---	---	1	---	1,304

**CALUMET HARBOR AND RIVER, IL AND IN**  
Upbound

Downbound

Grand Total	5,892	478	80	1,746	3,131	457	8,406	2,980	84	1,748	3,131	463
-------------	-------	-----	----	-------	-------	-----	-------	-------	----	-------	-------	-----

**FOREIGN**

Total	237	167	65	5	---	---	237	159	68	4	---	6
27	11	11	---	---	---	---	29	20	9	---	---	---
26	12	11	1	---	---	---	22	10	12	---	---	---
25	6	5	1	---	---	---	12	12	3	---	---	---
24	10	10	---	---	---	---	28	25	3	---	---	---
23	40	28	12	---	---	---	26	23	3	---	---	---
22	27	21	6	---	---	---	29	19	10	---	---	---
21	20	19	1	---	---	---	35	23	12	---	---	---
20	41	29	12	---	---	---	22	11	11	---	---	1
19	16	13	3	---	---	---	8	6	1	---	---	1
18	11	11	---	---	---	---	8	7	1	---	---	1
17	24	7	17	---	---	---	4	3	---	1	3	---
16	4	1	3	---	---	---	4	1	1	1	1	1
15	4	---	4	5	---	---	2	1	1	1	1	3
≤ 12	11	1	5	5	---	---	8	4	1	1	1	3

## Trips and Drafts of Vessels, 1990 (draft in feet)

Draft	Self Propelled Vessels			Non-Self Propelled Vessels		Self Propelled Vessels			Non-Self Propelled Vessels		
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo

## **CALUMET HARBOR AND RIVER - continued**

### Upbound

## Downbound

## **DOMESTIC**

PAGE FIVE

	Inbound						Outbound					
Grand Total	20,195	5,806	85	3,695	7,699	2,910	20,200	5,841	81	3,682	7,693	2,903

## **FOREIGN**

Total	235	159	68	5	—	3	239	167	65	4	—	3
27	29	20	9	—	—	11	11	11	—	—	—	—
26	22	10	12	—	—	12	11	11	1	—	—	—
25	12	12	—	—	—	6	5	5	1	—	—	—
24	28	25	3	—	—	10	10	—	—	—	—	—
23	26	23	3	—	—	40	28	12	—	—	—	—
22	29	19	10	—	—	27	21	6	—	—	—	—
21	35	23	12	—	—	20	19	1	—	—	—	—
20	22	11	11	—	—	41	29	12	—	—	—	—
19	8	6	1	—	—	16	13	3	—	—	—	—
18	8	7	1	—	—	11	11	—	—	—	—	—
17	4	3	—	—	—	24	7	17	—	—	—	—
16	1	—	1	—	—	7	1	3	—	3	—	—
15	2	—	1	—	—	4	—	4	—	4	—	—
≤ 12	9	—	4	5	—	10	1	5	1	—	—	3

## **DOMESTIC**

Total	19,960	5,647	17	3,690	7,699	2,907	19,961	5,674	16	3,678	7,693	2,900
27	22	22	—	—	—	—	—	—	—	—	—	—
26	35	35	—	—	—	—	—	2	2	—	—	—
25	16	16	—	—	—	—	—	—	—	—	—	—
24	—	—	—	—	—	—	—	10	10	—	—	—
23	2	2	—	—	—	—	—	1	1	—	—	—

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**PORT OF CHICAGO - continued**

Inbound	Outbound
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**DOMESTIC**

22	24	24	---	---	---	---	15	15	---	---	---	---
21	29	27	2	---	---	---	26	26	---	---	---	---
20	4	2	2	---	---	---	11	11	---	---	---	---
19	4	4	---	---	---	---	20	20	---	---	---	---
18	28	28	---	---	---	---	38	38	---	---	---	---
17	16	8	8	---	---	---	17	17	---	---	---	---
16	8	5	3	---	---	---	9	8	---	---	1	---
15	3	1	1	---	1	1	9	8	---	---	1	---
14	58	1	---	52	---	5	76	11	---	65	---	---
13	155	80	1	70	2	2	132	33	15	74	10	---
≤ 12	19,556	5,392	1	3,567	7,697	2,899	19,595	5,474	1	3,538	7,683	2,899
												Total trips: 40,395

**INDIANA HARBOR, IN**

Inbound	Outbound
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<b>Grand Total</b>	<b>2,688</b>	<b>659</b>	<b>52</b>	<b>1,032</b>	<b>393</b>	<b>552</b>	<b>2,693</b>	<b>654</b>	<b>50</b>	<b>1,040</b>	<b>391</b>	<b>558</b>
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**FOREIGN**

<b>Total</b>	<b>61</b>	<b>53</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>61</b>	<b>50</b>	<b>1</b>	<b>5</b>	---	<b>5</b>
27	37	37	---	---	---	---	4	4	---	---	---	---
26	12	12	---	---	---	---	2	2	---	---	---	---
25	1	1	---	---	---	---	3	3	---	---	---	---
24	2	2	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	38	38	---	---	---	---
22	1	1	---	---	---	---	3	3	---	---	---	---
21	1	---	1	---	---	---	---	---	1	---	---	1
20	1	---	---	---	1	---	2	---	1	1	---	2
16	1	---	---	---	1	---	3	---	1	---	---	2
15	---	---	---	---	2	---	2	---	4	4	---	---
≤ 12	5	---	1	2	---	2	4	---	4	---	---	---

**DOMESTIC**

<b>Total</b>	<b>2,627</b>	<b>606</b>	<b>50</b>	<b>1,030</b>	<b>391</b>	<b>550</b>	<b>2,632</b>	<b>604</b>	<b>49</b>	<b>1,035</b>	<b>391</b>	<b>553</b>
30	1	1	---	---	---	---	---	---	---	---	---	---
29	16	16	---	---	---	---	---	---	---	---	---	---
28	83	83	---	---	---	---	---	---	---	---	---	---
27	140	140	---	---	---	---	---	---	---	---	---	---
26	53	53	---	---	---	---	---	---	---	---	---	---
25	17	17	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	2	2	---	---	---	---
23	---	---	---	---	---	---	62	62	---	---	---	---
22	7	7	---	---	---	---	40	40	---	---	---	---
21	4	4	---	---	---	---	201	144	---	---	57	1
20	1	1	---	---	---	---	17	1	15	---	---	1
19	3	---	3	---	---	---	43	17	26	---	---	1
18	1	1	---	---	---	---	53	49	3	---	---	30
17	7	2	---	4	---	1	37	1	1	5	---	25
16	83	---	78	5	---	99	---	74	---	---	---	---

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**INDIANA HARBOR - continued**

Inbound

Outbound

**DOMESTIC**

15	17	---	---	15	---	2	30	---	1	16	---	13
14	93	---	---	26	---	67	37	---	---	32	---	5
13	63	13	---	49	---	1	285	222	---	50	2	11
≤ 12	2,038	268	47	858	391	474	1,726	66	3	858	389	410
												<b>Total trips:</b> 5,381

**BURNS WATERWAY HARBOR, IN**

Inbound

Outbound

<b>Grand Total</b>	<b>1,357</b>	<b>333</b>	<b>---</b>	<b>436</b>	<b>534</b>	<b>54</b>	<b>1,359</b>	<b>337</b>	<b>---</b>	<b>437</b>	<b>532</b>	<b>53</b>
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**FOREIGN**

<b>Total</b>	<b>114</b>	<b>114</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>118</b>	<b>118</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>
27	54	54	---	---	---	---	15	15	---	---	---	---
26	32	32	---	---	---	---	11	11	---	---	---	---
25	3	3	---	---	---	---	3	3	---	---	---	---
24	3	3	---	---	---	---	5	5	---	---	---	---
23	5	5	---	---	---	---	55	55	---	---	---	---
22	4	4	---	---	---	---	25	25	---	---	---	---
21	5	5	---	---	---	---	2	2	---	---	---	---
20	1	1	---	---	---	---	---	---	---	---	---	---
19	4	4	---	---	---	---	1	1	---	---	---	---
18	1	1	---	---	---	---	1	1	---	---	---	---
16	1	1	---	---	---	---	---	---	---	---	---	---
15	1	1	---	---	---	---	---	---	---	---	---	---

**DOMESTIC**

<b>Total</b>	<b>1,243</b>	<b>219</b>	<b>---</b>	<b>436</b>	<b>534</b>	<b>54</b>	<b>1,241</b>	<b>219</b>	<b>---</b>	<b>437</b>	<b>532</b>	<b>53</b>
27	45	45	---	---	---	---	---	---	---	---	---	---
26	69	69	---	---	---	---	---	---	---	---	---	---
25	3	3	---	---	---	---	1	1	---	---	---	---
24	4	4	---	---	---	---	1	1	---	---	---	---
23	3	3	---	---	---	---	1	1	---	---	---	---
22	1	1	---	---	---	---	42	42	---	---	---	---
21	1	1	---	---	---	---	14	14	---	---	---	---
20	---	---	---	---	---	---	18	18	---	---	---	---
19	---	---	---	---	---	---	31	31	---	---	---	---
18	1	1	---	---	---	---	7	7	---	---	---	---
17	1	1	---	---	---	---	3	3	---	---	---	---
16	---	---	---	---	---	---	6	4	---	2	---	---
13	86	81	---	1	4	54	1,118	98	---	435	532	53
≤ 12	1,029	10	---	435	530	54	---	---	---	435	532	53
												<b>Total trips:</b> 2,716

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**CHICAGO HARBOR, IL**  
(15 feet and less)

Upbound	Downbound
<b>Grand Total</b>	<b>5,249    5,127    ----</b>
	93    ----
	29    5,211    5,092    ----
	91    ----
	<b>Total trips:</b> <b>10,460</b>
	<b>28</b>

**MICHIGAN CITY HARBOR, IN**  
No Vessel Trips Reported

**BUFFINGTON HARBOR, IN**  
(27 feet and less)

Inbound	Outbound
<b>Grand Total</b>	<b>128    43    ----</b>
	32    53    ----
	123    43    ----
	28    52    ----
	<b>Total trips:</b> <b>251</b>

**GARY HARBOR, IN**  
(32 feet and less)

Inbound	Outbound
<b>Grand Total</b>	<b>892    268    ----</b>
	243    381    ----
	887    264    ----
	243    380    ----
	<b>Total trips:</b> <b>1,779</b>

## Trips and Drafts of Vessels, 1990 (draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

PRESQUE ISLE HARBOR, MI

## Inbound

### Outbound

Grand

#### Inbound

## **Self Propelled Vessels**

## Non-Self called Vessels

Pass & Teller

## Non-Self called Vessels

FOREIGN

Total

Total	79	79	—	—	—	—	79	79	—	—
27	—	—	—	—	—	—	18	18	—	—
26	—	—	—	—	—	—	4	4	—	—
24	2	2	—	—	—	—	7	7	—	—
23	22	22	—	—	—	—	47	47	—	—
22	17	17	—	—	—	—	2	2	—	—
21	9	9	—	—	—	—	—	—	—	—
20	10	10	—	—	—	—	—	—	—	—
19	17	17	—	—	—	—	—	—	—	—
18	2	2	—	—	—	—	1	1	—	—

## **DOMESTIC**

Total	182	174	—	4	4	—	177	169	—	5	3
28	2	2	—	—	—	—	1	1	—	—	—
27	1	1	—	—	—	—	91	90	—	—	1
26	2	2	—	—	—	—	41	41	—	—	—
25	12	12	—	—	—	—	1	1	—	—	—
24	8	8	—	—	—	—	—	—	—	—	—
23	21	21	—	—	—	—	4	4	—	—	—
22	8	8	—	—	—	—	3	3	—	—	—
21	2	2	—	—	—	—	7	7	—	—	—
20	17	17	—	—	—	—	2	2	—	—	—
19	3	3	—	—	—	—	3	3	—	—	—
18	56	56	—	—	—	—	3	3	—	—	—
17	3	3	—	—	—	—	—	—	—	—	—
16	12	12	—	—	—	—	—	—	—	—	—
15	6	5	—	—	—	—	—	—	—	—	—
14	4	—	—	—	—	—	—	—	—	—	—
12	25	22	—	4	1	—	7	2	—	5	2
							14	12			

Total trips: 517

## MARQUETTE HARBOR, MI

## Inbound

## Outbound

## **Grand**

inbound

## Outcomes

第10章

■ ■ ■

**23**      **1**      **2**      **—**      **—**      |      **—**      **—**      **—**      **3**      **3**      **—**      **—**      **—**

## **DOMESTIC**

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**MARQUETTE HARBOR - continued**  
Inbound

Outbound

## DOMESTIC

22	22	22	---	---	---	---	2	2	---	---	---	---
21	1	1	---	---	---	---	4	4	---	---	---	---
20	1	1	---	---	---	---	7	7	---	---	---	---
19	1	1	---	---	---	---	3	3	---	---	---	---
18	1	1	---	---	---	---	5	5	---	---	---	---
17	---	---	---	---	---	---	3	3	---	---	---	---
16	---	---	---	---	---	---	5	5	---	---	---	---
15	---	---	---	---	---	---	1	1	---	---	---	---
14	4	4	---	4	1	---	4	6	---	4	1	---
≤ 12	1	1	---	---	---	---	7	6	---	---	---	---
<b>Total trips:</b>												<b>81</b>

**DRUMMUND ISLAND, MI**

Inbound

Outbound

## Grand Total

Total	11,356	11,356	---	---	---	---	11,359	11,359	---	---	---	---
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## FOREIGN

Total	16	16	---	---	---	---	15	15	---	---	---	---
24	---	---	---	---	---	---	7	7	---	---	---	---
23	3	3	---	---	---	---	6	6	---	---	---	---
22	2	2	---	---	---	---	1	1	---	---	---	---
21	4	4	---	---	---	---	1	1	---	---	---	---
20	4	4	---	---	---	---	---	---	---	---	---	---
19	2	2	---	---	---	---	---	---	---	---	---	---
18	1	1	---	---	---	---	---	---	---	---	---	---

## DOMESTIC

Total	11,340	11,340	---	---	---	---	11,344	11,344	---	---	---	---
26	---	---	---	---	---	---	6	6	---	---	---	---
25	---	---	---	---	---	---	17	17	---	---	---	---
24	---	---	---	---	---	---	10	10	---	---	---	---
23	---	---	---	---	---	---	7	7	---	---	---	---
22	---	---	---	---	---	---	3	3	---	---	---	---
21	---	---	---	---	---	---	1	1	---	---	---	---
19	4	4	---	---	---	---	---	---	---	---	---	---
18	10	10	---	---	---	---	---	---	---	---	---	---
17	14	14	---	---	---	---	---	---	---	---	---	---
16	3	3	---	---	---	---	---	---	---	---	---	---
15	6	6	---	---	---	---	---	---	---	---	---	---
14	1	1	---	---	---	---	---	---	---	---	---	---
≤ 12	11,302	11,302	---	---	---	---	11,300	11,300	---	---	---	---
<b>Total trips:</b>												<b>22,715</b>

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**ST. MARYS RIVER, MI**

Grand Total	Upbound						Downbound					
	33,905	33,861	4	22	8	10	33,806	33,767	4	17	7	11
<b>FOREIGN</b>												
Total	593	571	4	13	5	—	552	531	4	12	4	1
27	—	—	—	—	—	—	32	32	—	—	—	—
26	5	5	—	—	—	—	188	188	—	—	—	—
25	7	7	—	—	—	—	7	7	—	—	—	—
24	19	19	—	—	—	—	13	13	—	—	—	—
23	65	64	1	—	—	—	84	83	1	—	—	—
22	82	81	1	—	—	—	11	11	—	—	—	—
21	68	66	2	—	—	—	4	4	—	—	—	—
20	84	84	—	—	—	—	13	13	—	—	—	—
19	36	35	—	1	—	—	7	6	—	1	—	—
18	38	38	—	—	—	—	6	6	—	—	—	—
17	4	4	—	—	—	—	2	1	1	—	—	—
16	161	160	—	1	—	—	5	2	2	1	—	—
15	4	2	—	2	—	—	4	3	—	1	—	—
14	4	4	—	—	—	—	159	158	—	1	—	—
13	—	—	—	—	—	—	2	2	—	—	—	—
≤ 12	16	2	—	9	5	—	15	2	—	8	4	1
<b>DOMESTIC</b>												
Total	33,312	33,290	—	9	3	10	33,254	33,236	—	5	3	10
31	—	—	—	—	—	—	8	8	—	—	—	—
30	—	—	—	—	—	—	1	1	—	—	—	—
29	—	—	—	—	—	—	27	27	—	—	—	—
28	8	8	—	—	—	—	122	122	—	—	—	—
27	6	6	—	—	—	—	793	792	—	1	—	—
26	29	29	—	—	—	—	381	381	—	—	—	—
25	78	78	—	—	—	—	17	17	—	—	—	—
24	97	97	—	—	—	—	35	35	—	—	—	—
23	258	258	—	—	—	—	25	25	—	—	—	—
22	126	126	—	—	—	—	12	12	—	—	—	—
21	141	141	—	—	—	—	4	3	—	—	1	—
20	109	109	—	—	—	—	1	1	—	—	—	—
19	55	53	—	—	—	—	2	3	3	—	—	—
18	384	382	—	—	—	—	2	2	2	—	—	—
17	49	49	—	—	—	—	15	14	—	—	1	—
16	58	55	—	3	—	—	5	2	—	3	—	—
15	37	36	—	—	1	—	1	1	—	—	—	—
14	9	7	—	1	—	—	2	—	—	1	—	1
13	7	—	—	5	—	—	2	—	—	1	—	1
≤ 12	31,861	31,856	—	—	2	3	31,798	31,790	—	2	6	—
<b>Total trips:</b>												
<b>67,711</b>												

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**ST. MARYS FALLS CANAL, MI AND SAULT STE. MARIE, ONTARIO SHIP CANAL, CN (INCLUDED IN ST. MARYS RIVER)**

Upbound

Downbound

<b>Grand Total</b>	<b>1,984</b>	<b>1,956</b>	<b>4</b>	<b>10</b>	<b>4</b>	<b>10</b>	<b>2,003</b>	<b>1,979</b>	<b>4</b>	<b>6</b>	<b>4</b>	<b>10</b>
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**FOREIGN**

Total	542	536	4	1	1	—	534	528	4	1	1	—
27	—	—	—	—	—	—	32	32	—	—	—	—
26	5	5	—	—	—	—	188	188	—	—	—	—
25	7	7	—	—	—	—	7	7	—	—	—	—
24	12	12	—	—	—	—	13	13	—	—	—	—
23	56	55	1	—	—	—	84	83	1	—	—	—
22	79	78	1	—	—	—	11	11	—	—	—	—
21	63	61	2	—	—	—	4	4	—	—	—	—
20	80	80	—	—	—	—	13	13	—	—	—	—
19	33	33	—	—	—	—	5	5	—	—	—	—
18	37	37	—	—	—	—	6	6	—	—	—	—
17	2	2	—	—	—	—	2	1	1	—	—	—
16	160	160	—	—	—	—	4	2	2	—	—	—
15	2	2	—	—	—	—	3	3	—	—	—	—
14	4	4	—	—	—	—	158	158	—	—	—	—
13	—	—	—	—	—	—	2	2	—	1	1	—
≤ 12	2	—	—	1	—	—	2	—	—	1	—	—

**DOMESTIC**

Total	1,442	1,420	—	9	3	10	1,469	1,451	—	5	3	10
31	—	—	—	—	—	—	8	8	—	—	—	—
30	—	—	—	—	—	—	1	1	—	—	—	—
29	—	—	—	—	—	—	27	27	—	—	—	—
28	8	8	—	—	—	—	122	122	—	—	—	—
27	6	6	—	—	—	—	793	792	—	1	—	—
26	23	23	—	—	—	—	381	381	—	—	—	—
25	61	61	—	—	—	—	17	17	—	—	—	—
24	87	87	—	—	—	—	35	35	—	—	—	—
23	250	250	—	—	—	—	25	25	—	—	—	—
22	123	123	—	—	—	—	12	12	—	—	—	—
21	140	140	—	—	—	—	4	3	—	—	1	—
20	109	109	—	—	—	—	—	—	—	—	—	—
19	51	49	—	—	—	2	3	3	—	—	—	—
18	374	372	—	—	—	2	2	2	—	—	—	—
17	35	35	—	—	—	—	15	14	—	—	1	—
16	55	52	—	3	—	—	5	2	—	3	—	—
15	31	30	—	—	1	—	1	1	—	—	—	—
14	8	6	—	—	1	—	1	2	—	1	—	1
13	7	—	—	5	—	2	2	2	—	1	2	6
≤ 12	74	69	—	—	2	3	14	6	—	—	2	—

Total trips: 3,987

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**GRAYS REEF PASSAGE, MI**

Grand Total	Upbound						Downbound					
	1,066	867	51	71	5	72	964	796	41	61	3	63
<b>DOMESTIC</b>												
Total	1,066	867	51	71	5	72	964	796	41	61	3	63
28	7	7	—	—	—	—	1	1	—	—	—	—
27	4	4	—	—	—	—	—	—	—	—	—	—
26	—	—	—	—	—	—	1	1	—	—	—	—
25	18	18	—	—	—	—	11	11	—	—	—	—
24	49	49	—	—	—	—	23	23	—	—	—	—
23	99	99	—	—	—	—	101	101	—	—	—	—
22	82	82	—	—	—	—	136	136	—	—	—	—
21	92	78	2	—	—	12	95	95	—	—	—	—
20	70	58	11	—	—	1	73	72	—	—	1	—
19	94	75	18	—	—	1	42	40	—	—	1	1
18	137	123	5	—	—	9	165	164	—	—	—	—
17	66	46	7	—	—	13	14	7	1	—	—	6
16	65	20	3	30	—	12	37	1	—	32	—	4
15	47	37	—	4	1	5	9	1	—	5	—	3
14	46	30	—	12	—	4	69	42	—	8	—	19
13	78	62	1	13	—	2	24	—	13	10	—	1
≤ 12	112	79	4	12	4	13	163	101	27	6	1	28
<b>Total trips:</b>												<b>2,030</b>

**CHARLEVOIX HARBOR, MI**

Grand Total	Inbound						Outbound					
	602	445	51	105	1	—	593	442	53	97	1	—
<b>DOMESTIC</b>												
Total	602	445	51	105	1	—	593	442	53	97	1	—
21	8	8	—	—	—	—	58	54	4	—	—	—
20	2	—	—	—	—	—	30	25	5	—	—	—
19	10	10	—	—	—	—	—	—	—	—	—	—
18	—	—	—	—	—	—	10	9	1	—	—	—
17	1	1	—	—	—	—	34	6	28	—	—	—
16	—	—	—	—	—	—	14	—	14	—	—	—
15	—	—	—	—	—	—	2	2	—	—	—	—
14	81	81	—	—	—	—	—	—	—	—	—	—
13	155	—	51	104	—	—	97	—	1	96	—	—
10	1	—	—	1	—	—	4	3	—	1	—	—
9	17	17	—	—	—	—	17	17	—	—	—	—
8	326	326	—	—	—	1	326	326	—	—	—	—
2	1	—	—	—	—	—	1	—	—	—	1	—
<b>Total trips:</b>												<b>1,195</b>

## WCSC: GREAT LAKES

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels					Non-Self Propelled Vessels					
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo

## MANISTEE HARBOR, MI

Inbound												Outbound			
<b>Grand Total</b>												42	42	—	—
FOREIGN												—	—	—	—
<b>Total</b>												4	4	—	—
21												2	2	—	—
20												2	2	—	—
19												2	2	—	—
DOMESTIC												—	—	—	—
<b>Total</b>												38	38	—	—
26												3	3	—	—
24												1	1	—	—
23												16	16	—	—
22												2	2	—	—
21												2	2	—	—
20												3	3	—	—
19												5	5	—	—
18												—	—	—	—
17												—	—	—	—
16												—	—	—	—
15												—	—	—	—
<b>Total trips:</b>												84			

## LUDINGTON HARBOR, MI

Inbound												Outbound			
<b>Grand Total</b>												543	381	—	107
FOREIGN												—	—	—	55
<b>Total</b>												—	—	—	544
<b>Total trips:</b>												1	1	—	108
DOMESTIC												—	—	—	56
<b>Total</b>												543	381	—	107
26												10	10	—	55
25												5	5	—	543
24												4	4	—	380
23												6	6	—	107
22												5	5	—	56
21												—	—	—	—
20												3	3	—	—
19												341	341	—	—
18												4	4	—	345
17												3	3	—	345
16												—	—	—	—
15												87	87	—	93
<b>Total trips:</b>												87	87	—	6

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**LUDINGTON HARBOR - continued**

Inbound

Outbound

## DOMESTIC

≤ 12	13	16	59	—	—	—	16	4	—	—	55	21	43	6	—	—	16	4	—	—	1	33
Total trips:																						1,087

**MUSKEGON HARBOR, MI**

Inbound

Outbound

Grand Total	185	110	—	39	—	36	186	109	—	40	—	37
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## FOREIGN

Total	6	6	—	—	—	—	7	7	—	—	—	—
25	1	1	—	—	—	—	1	1	—	—	—	—
23	3	3	—	—	—	—	1	1	—	—	—	—
22	2	2	—	—	—	—	2	2	—	—	—	—
21	—	—	—	—	—	—	1	1	—	—	—	—
20	—	—	—	—	—	—	1	1	—	—	—	—
18	—	—	—	—	—	—	1	1	—	—	—	—

## DOMESTIC

Total	179	104	—	39	—	36	179	102	—	40	—	37	
27	1	1	—	—	—	—	—	—	—	—	—	—	
26	13	13	—	—	—	—	—	—	—	—	—	—	
25	3	3	—	—	—	—	—	—	—	—	—	—	
24	17	17	—	—	—	—	—	—	—	—	—	—	
23	12	12	—	—	—	—	2	2	—	—	—	—	
22	34	34	—	—	—	—	4	4	—	—	—	—	
21	40	18	—	—	—	22	13	13	—	—	—	—	
20	2	2	—	—	—	—	4	3	—	—	—	1	
19	1	1	—	—	—	—	8	2	—	—	—	6	
18	2	1	—	—	—	1	37	37	—	—	—	—	
17	4	1	—	—	—	3	13	13	—	—	—	—	
16	27	—	—	27	—	—	37	10	—	27	—	—	
15	—	—	—	—	—	—	6	6	—	—	—	—	
14	2	—	—	1	—	1	22	1	—	1	—	20	
13	1	1	—	—	—	9	6	2	—	4	—	—	
≤ 12	20	—	—	11	—	9	27	9	—	8	—	10	
Total trips:													371

**GRAND HAVEN HARBOR AND GRAND RIVER, MI**

Upbound

Downbound

Grand Total	121	87	15	19	—	—	120	86	15	19	—	—
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## FOREIGN

Total	18	18	—	—		—	—	18	18	—	—	—
-------	----	----	---	---	--	---	---	----	----	---	---	---

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**GRAND HAVEN HARBOR AND GRAND RIVER - continued**

Upbound

Downbound

**FOREIGN**

23	3	3	---	---	---	---	4	4	---	---	---	---
22	9	9	---	---	---	---	5	5	---	---	---	---
21	4	4	---	---	---	---	4	4	---	---	---	---
20	2	2	---	---	---	---	3	3	---	---	---	---
19	—	—	---	---	---	---	2	2	---	---	---	---

**DOMESTIC**

<b>Total</b>	<b>103</b>	<b>69</b>	<b>15</b>	<b>19</b>	---	---	<b>102</b>	<b>68</b>	<b>15</b>	<b>19</b>	---	---
24	1	1	---	---	---	---	—	—	---	---	---	---
22	5	5	---	---	---	---	3	3	---	---	---	---
21	27	27	---	---	---	---	29	29	---	---	---	---
20	9	8	1	---	---	---	—	—	---	---	---	---
19	5	1	4	---	---	---	1	—	1	---	---	---
18	1	1	---	---	---	---	18	18	---	---	---	---
17	4	1	3	---	---	---	7	7	---	---	---	---
16	6	2	4	---	---	---	2	2	---	---	---	---
15	4	4	---	---	---	---	2	2	---	---	---	---
14	—	—	---	---	---	---	6	6	---	---	---	---
13	31	10	2	19	---	---	29	—	10	19	---	---
≤ 12	10	9	1	—	—	—	5	1	4	—	—	—

**Total trips:** 241**HOLLAND HARBOR, MI**

Inbound

Outbound

<b>Grand Total</b>	<b>34</b>	<b>33</b>	---	<b>1</b>	---	---	<b>31</b>	<b>30</b>	---	<b>1</b>	---	---
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**FOREIGN**

<b>Total</b>	<b>6</b>	<b>5</b>	---	<b>1</b>	---	---	<b>5</b>	<b>4</b>	---	<b>1</b>	---	---
21	2	2	---	---	---	---	2	2	---	---	---	---
20	2	2	---	---	---	---	2	2	---	---	---	---
18	1	1	---	---	---	---	—	—	---	---	---	---
14	1	—	---	1	---	---	1	—	—	1	---	---

**DOMESTIC**

<b>Total</b>	<b>28</b>	<b>28</b>	---	---	---	---	<b>26</b>	<b>26</b>	---	---	---	---
24	1	1	---	---	---	---	—	—	---	---	---	---
23	16	16	---	---	---	---	—	—	---	---	---	---
22	1	1	---	---	---	---	—	—	---	---	---	---
21	5	5	---	---	---	---	—	—	---	---	---	---
20	2	2	---	---	---	---	—	—	---	---	---	---
19	1	1	---	---	---	---	2	—	---	---	---	---
18	2	2	---	---	---	---	20	20	---	---	---	---
17	—	—	---	---	---	---	1	1	---	---	---	---
16	—	—	---	---	---	---	2	2	---	---	---	---
13	—	—	---	---	---	---	1	1	---	---	---	---
10	—	—	---	---	---	---	1	—	—	—	—	—

**Total trips:** 65

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
<b>ST. JOSEPH HARBOR, MI</b>												
Upbound												
<b>Grand Total</b>	<b>67</b>	<b>67</b>	---	---	---	---	<b>66</b>	<b>66</b>	---	---	---	---
<b>FOREIGN</b>												
<b>Total</b>	<b>3</b>	<b>3</b>	3	3	3	3	<b>3</b>	<b>3</b>	3	3	3	3
21	3	3	3	3	3	3	3	3	3	3	3	3
<b>DOMESTIC</b>												
<b>Total</b>	<b>64</b>	<b>64</b>	---	---	---	---	<b>63</b>	<b>63</b>	---	---	---	---
23	1	1	1	1	1	1	1	1	1	1	1	1
22	24	24	24	24	24	24	24	24	24	24	24	24
21	22	22	22	22	22	22	22	22	22	22	22	22
20	5	5	5	5	5	5	5	5	5	5	5	5
19	5	5	5	5	5	5	5	5	5	5	5	5
18	2	2	2	2	2	2	2	2	2	2	2	2
17	3	3	3	3	3	3	3	3	3	3	3	3
16	—	—	—	—	—	—	—	—	—	—	—	—
15	1	1	1	1	1	1	1	1	1	1	1	1
14	—	—	—	—	—	—	—	—	—	—	—	—
13	—	—	—	—	—	—	—	—	—	—	—	—
≤ 12	1	1	1	1	1	1	9	9	9	9	9	9
<b>Total trips:</b>												<b>133</b>

<b>MILWAUKEE HARBOR, WI</b>												
Inbound												
<b>Grand Total</b>	<b>691</b>	<b>500</b>	<b>19</b>	<b>115</b>	<b>1</b>	<b>56</b>	<b>690</b>	<b>505</b>	<b>20</b>	<b>108</b>	<b>2</b>	<b>55</b>
<b>FOREIGN</b>												
<b>Total</b>	<b>77</b>	<b>77</b>	77	77	77	77	<b>78</b>	<b>78</b>	78	78	78	78
27	3	3	3	3	3	3	7	7	7	7	7	7
26	16	16	16	16	16	16	3	3	3	3	3	3
25	12	12	12	12	12	12	5	5	5	5	5	5
24	12	12	12	12	12	12	9	9	9	9	9	9
23	15	15	15	15	15	15	18	18	18	18	18	18
22	6	6	6	6	6	6	14	14	14	14	14	14
21	4	4	4	4	4	4	12	12	12	12	12	12
20	5	5	5	5	5	5	4	4	4	4	4	4
19	1	1	1	1	1	1	2	2	2	2	2	2
18	—	—	—	—	—	—	1	1	1	1	1	1
15	1	1	1	1	1	1	—	—	—	—	—	—
14	1	1	1	1	1	1	—	—	—	—	—	—
13	—	—	—	—	—	—	1	1	1	1	1	1
≤ 12	1	1	1	1	1	1	2	2	2	2	2	2
<b>DOMESTIC</b>												
<b>Total</b>	<b>614</b>	<b>423</b>	<b>19</b>	<b>115</b>	<b>1</b>	<b>56</b>	<b>612</b>	<b>427</b>	<b>20</b>	<b>108</b>	<b>2</b>	<b>55</b>
26	3	3	3	3	3	3	—	—	—	—	—	—
25	6	6	6	6	6	6	—	—	—	—	—	—

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**MILWAUKEE HARBOR - continued**  
Inbound

Outbound

## DOMESTIC

24	5	5	---	---	---	---	2	2	---	---	---	---
23	14	14	---	---	---	---	---	---	---	---	---	---
22	10	10	---	---	---	---	2	2	---	---	---	---
21	18	18	---	---	---	---	4	4	---	---	---	---
20	11	8	3	---	---	---	---	---	---	---	---	---
19	2	2	---	---	---	---	1	1	---	---	---	---
18	20	20	---	---	---	---	15	13	2	---	---	---
17	24	6	7	---	---	11	15	15	---	---	---	---
16	20	9	3	1	---	7	2	1	---	1	---	---
15	11	5	---	4	---	2	12	8	---	4	---	---
14	10	---	---	10	---	---	33	25	---	8	---	---
13	24	---	---	24	---	1	66	29	11	25	2	1
≤ 12	436	317	6	76	1	36	460	327	7	70	54	1,381

Total trips: 1,381

## GREEN BAY HARBOR, WI

Upbound

Downbound

Grand Total	166	134	4	14	1	13	163	132	4	13	1	13
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## FOREIGN

Total	16	12	4	---	---	---	14	10	4	---	---	---
26	1	1	---	---	---	---	---	---	---	---	---	---
23	2	2	---	---	---	---	---	---	---	---	---	---
22	5	5	---	---	---	---	2	---	2	---	---	---
21	1	1	---	---	---	---	1	---	1	---	---	---
20	4	2	2	---	---	---	6	6	---	---	---	---
19	2	1	1	---	---	---	2	1	1	---	---	---
18	1	---	1	---	---	---	2	2	---	---	---	---
15	---	---	---	---	---	---	1	1	---	---	---	---

## DOMESTIC

Total	150	122	---	14	1	13	149	122	---	13	1	13
26	9	9	---	---	---	---	---	---	---	---	---	---
25	8	8	---	---	---	---	---	---	---	---	---	---
24	2	2	---	---	---	---	---	---	---	---	---	---
23	9	9	---	---	---	---	---	---	---	---	---	---
22	33	33	---	---	---	---	2	2	---	---	---	---
21	22	22	---	---	---	---	3	3	---	---	---	---
20	30	29	---	---	1	---	---	---	---	---	---	---
19	4	4	---	---	---	---	5	5	---	---	---	---
18	4	4	---	---	---	---	34	34	---	---	---	---
17	1	1	---	---	---	---	22	22	---	---	---	---
16	5	---	---	1	---	4	6	4	---	2	---	---
15	11	1	---	3	---	7	12	8	---	3	1	---
14	8	---	6	---	---	2	12	8	---	4	---	---
13	4	---	4	---	---	4	7	7	---	4	---	13
≤ 12	4	---	---	4	---	4	46	29	4	---	---	329

Total trips: 329

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**ALPENA HARBOR, MI**

Grand Total	Inbound						Outbound					
	292	284	5	2	1	---	293	289	4	---	---	---
<b>FOREIGN</b>												
Total	35	30	5	---	---	---	25	24	1	---	---	---
25	---	---	---	---	---	---	1	1	---	---	---	---
24	---	---	---	---	---	---	3	3	---	---	---	---
23	---	---	---	---	---	---	1	1	---	---	---	---
22	1	1	---	---	---	---	5	5	---	---	---	---
21	13	13	---	---	---	---	5	5	---	---	---	---
20	---	---	---	---	---	---	4	4	---	---	---	---
19	6	6	---	---	---	---	3	3	---	---	---	---
18	---	---	---	---	---	---	1	1	---	---	---	---
17	2	1	1	---	---	---	---	---	---	---	---	---
16	9	6	3	---	---	---	1	---	1	---	---	---
15	1	---	1	---	---	---	---	---	---	---	---	---
13	2	2	---	---	---	---	1	---	---	---	---	---
≤ 12	1	1	---	---	---	---	1	1	---	---	---	---
<b>DOMESTIC</b>												
Total	257	254	---	2	1	---	268	265	3	---	---	---
26	2	2	---	---	---	---	2	2	---	---	---	---
25	---	---	---	---	---	---	51	51	---	---	---	---
24	2	2	---	---	---	---	4	4	---	---	---	---
23	3	3	---	---	---	---	106	106	---	---	---	---
22	8	8	---	---	---	---	39	39	---	---	---	---
21	7	7	---	---	---	---	12	12	---	---	---	---
20	7	7	---	---	---	---	12	12	---	---	---	---
19	1	1	---	---	---	---	12	12	---	---	---	---
18	---	---	---	---	---	---	20	20	---	---	---	---
17	27	27	---	---	---	---	11	11	---	---	---	---
15	---	---	---	---	---	---	1	1	---	---	---	---
14	41	41	---	---	---	---	---	---	---	---	---	---
13	58	58	---	---	---	---	---	---	---	---	---	---
≤ 12	101	98	---	2	1	---	10	7	3	---	---	---
<b>Total trips:</b>												
												585

**SAGINAW RIVER, MI**

Grand Total	Upbound						Downbound					
	309	246	15	30	1	17	325	251	14	36	1	23
<b>FOREIGN</b>												
Total	47	37	10	---	---	---	49	37	12	---	---	---
26	2	2	---	---	---	---	9	9	---	---	---	---
25	1	1	---	---	---	---	11	10	1	---	---	---
24	7	6	1	---	---	---	6	6	---	---	---	---
23	6	6	---	---	---	---	7	6	1	---	---	---
22	7	6	1	---	---	---	4	3	1	---	---	---
21	6	3	3	---	---	---	---	---	---	---	---	---

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**SAGINAW RIVER - continued**

Upbound	Downbound
---------	-----------

**FOREIGN**

20	11	11	—	—	—	—	3	2	1	—	—	—
19	1	1	—	—	—	—	1	1	—	—	—	—
18	—	—	—	—	—	—	3	—	3	—	—	—
17	1	1	—	—	—	—	3	—	3	—	—	—
16	2	—	2	—	—	—	2	—	2	—	—	—
13	2	—	2	—	—	—	—	—	—	—	—	—
≤ 12	1	—	1	—	—	—	—	—	—	—	—	—

**DOMESTIC**

<b>Total</b>	<b>262</b>	<b>209</b>	<b>5</b>	<b>30</b>	<b>1</b>	<b>17</b>	<b>276</b>	<b>214</b>	<b>2</b>	<b>36</b>	<b>1</b>	<b>23</b>
26	—	—	—	—	—	—	24	24	—	—	—	—
25	1	1	—	—	—	—	10	10	—	—	—	—
24	—	—	—	—	—	—	18	18	—	—	—	—
23	1	—	1	—	—	—	12	12	—	—	—	—
22	—	—	—	—	—	—	39	39	—	—	—	—
21	1	—	—	—	—	1	77	76	—	—	1	—
20	1	1	—	—	—	—	19	19	—	—	—	—
19	—	—	—	—	—	—	10	9	—	—	—	—
18	21	21	—	—	—	—	11	5	—	—	—	6
17	79	78	1	—	—	—	3	2	—	—	—	1
16	20	18	—	2	—	—	4	—	—	2	—	2
15	29	28	—	—	1	—	3	—	—	1	—	2
14	29	8	—	20	—	1	28	—	—	23	—	5
13	15	11	—	4	—	—	5	—	—	4	—	1
≤ 12	65	43	3	4	—	15	13	2	—	6	—	5

Total trips:

634

**ST. CLAIR RIVER, MI**

Upbound	Downbound
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<b>Grand Total</b>	<b>3,345    2,990</b>
142    108	37    68
3,383    3,014	147    120
40    62	—

**FOREIGN**

<b>Total</b>	<b>1,433</b>	<b>1,261</b>	<b>107</b>	<b>38</b>	<b>12</b>	<b>15</b>	<b>1,423</b>	<b>1,246</b>	<b>109</b>	<b>41</b>	<b>12</b>	<b>15</b>
27	129	120	9	—	—	—	82	82	—	—	—	—
26	94	82	12	—	—	—	275	274	1	—	—	—
25	48	48	—	—	—	—	62	61	1	—	—	—
24	90	86	4	—	—	—	66	65	1	—	—	—
23	157	153	4	—	—	—	280	267	13	—	—	—
22	179	167	12	—	—	—	116	107	9	—	—	—
21	163	146	17	—	—	—	65	60	5	—	—	—
20	164	148	15	—	1	—	100	83	15	—	—	2
19	75	68	4	1	—	2	38	33	4	1	—	—
18	60	49	10	—	—	1	27	27	—	—	—	—
17	16	9	6	—	—	1	28	9	19	—	—	—
16	180	168	7	4	1	—	24	6	14	2	—	2
15	11	6	2	2	—	1	13	5	5	1	—	2
14	7	5	—	2	—	—	162	158	—	3	—	—
13	6	2	—	—	—	4	16	3	13	—	—	—

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**ST. CLAIR RIVER - continued**

	Upbound							Downbound					
<b>FOREIGN</b>													
≤ 12	54	4	5	29	10	6	69	6	9	34	12	8	
DOMESTIC													
Total	1,912	1,729	35	70	25	53	1,960	1,768	38	79	28	47	
29	—	—	—	—	—	—	25	25	—	—	—	—	
28	1	1	—	—	—	—	102	102	—	—	—	—	
27	3	3	—	—	—	—	568	566	—	—	—	2	
26	26	26	—	—	—	—	410	410	—	—	—	—	
25	17	17	—	—	—	—	203	203	—	—	—	—	
24	26	26	—	—	—	—	123	123	—	—	—	—	
23	241	238	3	—	—	—	117	117	—	—	—	—	
22	88	88	—	—	—	—	76	76	—	—	—	—	
21	189	189	—	—	—	—	91	89	2	—	—	—	
20	133	132	—	—	1	—	50	39	11	—	—	—	
19	89	89	—	—	—	—	4	3	1	—	—	—	
18	432	432	—	—	—	—	11	5	5	—	—	—	
17	173	172	1	—	—	—	14	6	7	—	—	1	
16	76	68	2	3	—	3	15	2	3	—	—	8	
15	71	62	—	5	1	3	7	1	—	4	—	2	
14	83	60	—	21	—	2	33	—	—	31	1	2	
13	40	9	13	17	—	1	21	—	1	20	—	1	
≤ 12	224	117	16	24	23	44	90	1	8	22	25	34	
													Total trips: 6,728

**PORT HURON, MI**

Grand Total	Inbound						Outbound					
	47	28	—	19	—	—	61	30	—	29	1	1
<b>FOREIGN</b>												
Total	6	6	—	—	—	—	13	5	—	6	1	1
27	—	—	—	—	—	—	1	1	—	—	—	—
26	1	1	—	—	—	—	3	3	—	—	—	—
23	1	1	—	—	—	—	—	—	—	—	—	—
22	—	—	—	—	—	—	1	1	—	—	—	—
21	1	1	—	—	—	—	—	—	—	—	—	—
19	1	1	—	—	—	—	—	—	—	—	—	—
18	1	1	—	—	—	—	—	—	—	—	—	—
15	1	1	—	—	—	—	—	—	—	—	—	—
14	—	—	—	—	—	—	1	—	—	—	—	1
≤ 12	—	—	—	—	—	—	7	—	—	6	1	—
<b>DOMESTIC</b>												
Total	41	22	—	19	—	—	48	25	—	23	—	—
26	11	11	—	—	—	—	—	—	—	—	—	—
25	1	1	—	—	—	—	—	—	—	—	—	—
22	1	1	—	—	—	—	—	—	—	—	—	—
21	8	8	—	—	—	—	—	—	—	—	—	—

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**PORT HURON - continued**

Inbound	Outbound
---------	----------

**DOMESTIC**

20	---	---	---	---	---	---	1	1	---	---	---	---
18	---	---	---	---	---	---	9	9	---	---	---	---
17	1	1	---	---	---	---	12	12	---	---	---	---
15	---	---	---	---	---	---	3	3	---	---	---	---
14	10	---	---	10	---	---	6	6	---	6	---	---
13	7	---	---	7	---	---	15	15	---	15	---	---
≤ 12	2	---	---	2	---	---	2	2	---	2	---	---

**Total trips:** 108

**MARYSVILLE, MI**

Inbound	Outbound
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Grand Total	11
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**FOREIGN**

Total	28	8	---	10	5	5	22	6	---	7	4	5
27	2	2	---	---	---	---	1	1	---	---	---	---
26	2	2	---	---	---	---	1	1	---	---	---	---
25	2	2	---	---	---	---	2	2	---	---	---	---
21	1	1	---	---	---	---	1	1	---	---	---	---
20	1	1	---	---	---	---	1	1	---	---	---	---
15	---	---	---	---	---	---	1	1	---	---	---	---
13	4	---	---	---	5	1	16	---	---	7	4	5
≤ 12	16	---	---	10	5	1	16	---	---	7	4	5

**DOMESTIC**

Total	50	30	---	6	---	14	43	26	---	4	---	13
26	14	14	---	---	---	---	---	---	---	---	---	---
25	5	5	---	---	---	---	1	1	---	---	---	---
22	3	3	---	---	---	---	1	1	---	---	---	---
21	---	---	---	---	---	---	1	1	---	---	---	---
20	2	2	---	---	---	---	1	1	---	---	---	---
19	---	---	---	---	---	---	1	1	---	---	---	---
18	2	2	---	---	---	---	3	3	---	---	---	---
17	3	3	---	---	---	1	15	15	---	---	---	---
16	1	---	---	---	---	1	1	1	---	---	---	---
15	1	---	---	1	---	1	1	1	---	1	---	---
14	1	1	---	5	---	13	18	2	---	3	---	13
≤ 12	18	---	---	5	---	13	18	2	---	3	---	13

**Total trips:** 143

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
<b>ST. CLAIR, MI</b>												
Grand Total	146	121	---	8	---	17	147	124	---	10	3	10
FOREIGN												
Total	---	---	---	---	---	8	8	---	---	4	3	1
≤ 12	---	---	---	---	---	8	8	---	---	4	3	1
DOMESTIC												
Total	146	121	---	8	---	17	139	124	---	6	---	9
27	96	96	---	---	---	1	1	1	---	---	---	---
26	17	17	---	---	---	1	1	1	---	---	---	---
25	3	3	---	---	---	30	30	30	---	---	---	---
24	1	1	---	---	---	7	7	7	---	---	---	---
23	---	---	---	---	---	2	2	2	---	---	---	---
22	---	---	---	---	---	2	2	2	---	---	---	---
21	2	2	---	---	---	13	13	13	---	---	---	---
20	1	1	---	---	---	17	17	17	---	---	---	---
19	---	---	---	---	---	1	1	1	---	---	---	---
18	1	1	---	---	---	8	8	8	---	---	---	---
17	---	---	---	---	---	14	14	14	---	---	---	---
14	---	---	---	---	---	3	1	1	---	2	---	---
≤ 12	25	---	---	8	---	17	40	27	---	4	---	9
<b>Total trips:</b>												<b>293</b>

Grand Total	106	106	---	---	---	---	106	106	---	---	---	---
<b>MARINE CITY, MI</b>												
FOREIGN	1	1	---	---	---	1	1	1	---	---	---	---
Total	1	1	---	---	---	1	1	1	---	---	---	---
21	1	1	---	---	---	1	1	1	---	---	---	---
20	---	---	---	---	---	1	1	1	---	---	---	---
DOMESTIC												
Total	105	105	---	---	---	---	105	105	---	---	---	---
28	11	11	---	---	---	---	---	---	---	---	---	---
27	43	43	---	---	---	---	---	---	---	---	---	---
26	26	26	---	---	---	---	---	---	---	---	---	---
25	6	6	---	---	---	---	---	---	---	---	---	---
24	1	1	---	---	---	---	---	---	---	---	---	---
23	10	10	---	---	---	60	60	60	---	---	---	---
22	4	4	---	---	---	---	---	---	---	---	---	---
21	4	4	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	27	27	27	---	---	---	---
17	---	---	---	---	---	16	16	16	---	---	---	---
16	---	---	---	---	---	2	2	2	---	---	---	---
<b>Total trips:</b>												<b>212</b>

## WCSC: GREAT LAKES

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**CHANNELS IN LAKE ST. CLAIR**

	Upbound						Downbound					
<b>Grand Total</b>	<b>3,099</b>	<b>2,753</b>	<b>142</b>	<b>100</b>	<b>37</b>	<b>67</b>	<b>3,128</b>	<b>2,767</b>	<b>147</b>	<b>113</b>	<b>40</b>	<b>61</b>

## FOREIGN

Total	1,433	1,261	107	38	12	15	1,423	1,246	109	41	12	15
27	129	120	9	—	—	—	82	82	—	—	—	—
26	94	82	12	—	—	—	275	274	1	—	—	—
25	48	48	—	—	—	—	62	61	1	—	—	—
24	90	86	4	—	—	—	66	65	1	—	—	—
23	157	153	4	—	—	—	280	267	13	—	—	—
22	179	167	12	—	—	—	116	107	9	—	—	—
21	163	146	17	—	—	—	65	60	5	—	—	—
20	164	148	15	—	1	—	100	83	15	—	—	2
19	75	68	4	1	—	2	38	33	4	1	—	—
18	60	49	10	—	—	1	27	27	—	—	—	—
17	16	9	6	—	—	1	28	9	19	—	—	—
16	180	168	7	4	1	—	24	6	14	2	—	2
15	11	6	2	2	—	1	13	5	5	1	—	2
14	7	5	—	2	—	—	162	158	—	3	—	1
13	6	2	—	—	—	4	16	3	13	—	—	—
≤ 12	54	4	5	29	10	6	69	6	9	34	12	8

## DOMESTIC

Total	1,666	1,492	35	62	25	52	1,705	1,521	38	72	28	46
29	—	—	—	—	—	—	25	25	—	—	—	—
28	1	1	—	—	—	—	91	91	—	—	—	—
27	3	3	—	—	—	—	428	426	—	—	2	—
26	26	26	—	—	—	—	341	341	—	—	—	—
25	17	17	—	—	—	—	192	192	—	—	—	—
24	26	26	—	—	—	—	123	123	—	—	—	—
23	181	178	3	—	—	—	116	116	—	—	—	—
22	85	85	—	—	—	—	72	72	—	—	—	—
21	176	176	—	—	—	—	81	79	2	—	—	—
20	114	113	—	—	1	—	50	39	11	—	—	—
19	87	87	—	—	—	—	4	3	1	—	—	—
18	386	386	—	—	—	—	11	5	5	—	—	1
17	116	115	1	—	—	—	13	5	7	—	—	1
16	73	65	2	3	—	3	14	2	3	2	—	7
15	67	59	—	4	1	3	6	1	—	3	1	2
14	77	58	—	17	—	2	27	—	—	25	1	1
13	37	9	13	14	—	1	21	—	1	20	—	—
≤ 12	194	88	16	24	23	43	90	1	8	22	25	34

Total trips: 6,227

## DETROIT RIVER, MI

	Upbound						Downbound					
<b>Grand Total</b>	<b>6,313</b>	<b>4,964</b>	<b>182</b>	<b>608</b>	<b>296</b>	<b>263</b>	<b>6,211</b>	<b>4,982</b>	<b>181</b>	<b>527</b>	<b>259</b>	<b>262</b>

## FOREIGN

<b>Total</b>	<b>4,166</b>	<b>3,312</b>	<b>119</b>	<b>386</b>	<b>271</b>	<b>78</b>	<b>4,076</b>	<b>3,295</b>	<b>125</b>	<b>346</b>	<b>231</b>	<b>79</b>
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Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**DETROIT RIVER - continued**

Upbound

Downbound

**FOREIGN**

27	130	121	9	---	---	---	82	82	---	---	---	---
26	155	143	12	---	---	1	286	285	1	---	---	---
25	68	66	1	---	---	---	79	77	2	---	---	---
24	117	113	4	---	---	---	97	96	1	---	---	---
23	187	183	4	---	---	---	327	314	13	---	---	---
22	200	188	12	---	---	---	145	136	9	---	---	---
21	188	169	19	---	---	---	94	88	6	---	---	---
20	182	164	17	---	1	---	135	117	16	---	---	2
19	94	87	4	1	---	2	55	48	6	1	---	---
18	73	61	11	---	---	1	38	37	1	---	---	---
17	19	9	9	---	---	1	36	12	21	---	---	3
16	189	169	8	7	1	4	38	9	16	8	1	4
15	313	304	4	2	1	2	319	305	8	1	1	4
14	13	7	---	3	---	3	171	165	---	3	---	3
13	24	13	---	3	---	8	45	11	14	7	---	13
≤ 12	2,214	1,515	5	370	267	57	2,129	1,513	11	326	229	50

**DOMESTIC**

Total	2,147	1,652	63	222	25	185	2,135	1,687	56	181	28	183
29	—	—	—	—	—	—	25	25	—	—	—	—
28	1	1	—	—	—	—	91	91	—	—	—	—
27	3	3	—	—	—	—	428	426	—	—	2	—
26	29	29	—	—	—	—	341	341	—	—	—	—
25	27	27	—	—	—	—	192	192	—	—	—	—
24	60	60	—	—	—	—	123	123	—	—	—	—
23	199	196	3	—	—	—	117	117	—	—	—	—
22	102	102	—	—	—	—	79	79	—	—	—	—
21	191	191	—	—	—	—	90	86	4	—	—	—
20	123	122	—	—	1	—	70	46	24	—	—	—
19	114	114	—	—	—	—	21	19	2	—	—	—
18	390	390	—	—	—	—	93	82	6	—	—	5
17	121	119	1	—	—	1	40	26	7	—	—	7
16	97	71	2	21	—	3	43	5	3	13	—	22
15	92	67	1	19	1	4	40	25	—	13	—	2
14	124	61	1	53	—	9	64	—	—	62	1	1
13	60	11	16	30	—	3	39	2	2	35	—	—
≤ 12	414	88	39	99	23	165	239	2	8	58	25	146
<b>Total trips:</b>												<b>12,524</b>

**DETROIT HARBOR, MI**

Inbound

Outbound

Grand Total	832	378	14	247	144	49	826	372	12	250	144	48
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**FOREIGN**

Total	448	133	2	161	144	8	444	129	1	164	144	6
27	1	1	—	—	—	—	—	—	—	—	—	—
26	23	23	—	—	—	—	5	5	—	—	—	—
25	10	8	1	—	1	—	9	8	1	—	—	—

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**DETROIT HARBOR - continued**

Inbound	Outbound
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**FOREIGN**

24	18	18	---	---	---	---	19	19	---	---	---	---
23	12	12	---	---	---	---	17	17	---	---	---	---
22	13	13	---	---	---	---	16	16	---	---	---	---
21	13	13	---	---	---	---	19	19	---	---	---	---
20	7	7	---	---	---	---	15	15	---	---	---	---
19	14	14	---	---	---	---	5	5	---	---	---	---
18	8	8	---	---	---	---	4	4	---	---	---	---
17	1	---	1	---	---	---	1	1	---	---	---	---
16	---	---	---	---	---	---	3	1	---	2	---	---
15	---	---	---	---	---	---	1	1	---	---	---	---
14	2	2	---	---	---	---	6	6	---	---	---	---
13	9	9	---	---	---	---	11	8	---	3	---	---
≤ 12	317	5	---	161	143	8	313	4	---	159	144	6

**DOMESTIC**

Total	384	245	12	86	---	41	382	243	11	86	---	42
27	41	41	---	---	---	---	382	243	11	86	---	42
26	33	33	---	---	---	---	382	243	11	86	---	42
25	23	23	---	---	---	---	382	243	11	86	---	42
24	53	53	---	---	---	---	382	243	11	86	---	42
23	12	12	---	---	---	---	382	243	11	86	---	42
22	19	19	---	---	---	---	382	243	11	86	---	42
21	13	11	2	---	---	---	53	53	---	86	---	42
20	7	7	---	---	---	---	55	55	---	86	---	42
19	20	20	---	---	---	---	37	37	---	86	---	42
18	5	5	---	---	---	---	44	44	---	86	---	42
17	5	2	3	---	---	---	39	39	---	86	---	42
16	8	6	2	---	---	---	33	33	---	86	---	42
15	8	7	1	---	---	---	5	5	---	86	---	42
14	35	4	---	26	---	5	73	33	---	40	---	42
13	35	1	4	30	---	36	42	6	11	25	---	42
≤ 12	67	1	---	30	---	36	79	16	---	21	---	42

Total trips:

1,658

**ROUGE RIVER, MI**

Grand Total	943	370	39	258	87	189	961	365	42	259	92	203
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**FOREIGN**

Total	355	63	6	148	87	51	371	66	10	152	92	51
26	28	28	---	---	---	---	6	6	---	---	---	---
25	9	9	---	---	---	---	8	8	---	---	---	---
24	9	9	---	---	---	---	10	10	---	---	---	---
23	4	4	---	---	---	---	11	11	---	---	---	---
22	1	1	---	---	---	---	5	5	---	---	---	---
21	4	3	1	---	---	---	4	3	1	---	---	---
20	8	6	2	---	---	---	15	14	1	---	---	---
19	---	---	---	---	---	---	7	5	2	---	---	---

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**ROUGE RIVER - continued**

	Inbound						Outbound					
<b>FOREIGN</b>												
18	1	—	—	1	—	—	2	1	1	—	—	—
17	—	—	—	—	—	—	4	1	1	—	—	2
16	8	—	—	1	3	—	6	—	1	—	1	1
15	3	—	—	1	—	1	4	—	1	—	1	2
14	4	—	—	—	1	—	2	—	—	—	1	2
13	6	2	—	—	1	—	14	—	1	—	—	13
≤ 12	270	1	—	143	86	40	273	1	1	150	90	31
<b>DOMESTIC</b>												
<b>Total</b>	<b>588</b>	<b>307</b>	<b>33</b>	<b>110</b>	—	—	<b>138</b>	<b>590</b>	<b>299</b>	<b>32</b>	<b>107</b>	—
28	18	18	—	—	—	—	—	—	—	—	—	152
27	97	97	—	—	—	—	—	—	—	—	—	—
26	25	25	—	—	—	—	—	—	—	—	—	—
25	45	45	—	—	—	—	—	—	—	—	—	—
24	12	12	—	—	—	—	1	—	—	—	—	—
23	40	40	—	—	—	—	4	—	—	—	—	—
22	30	30	—	—	—	—	3	—	—	—	—	—
21	15	15	—	—	—	—	17	16	—	—	—	—
20	29	18	11	—	—	—	17	—	—	—	—	—
19	4	3	1	—	—	—	15	14	13	—	—	—
18	6	1	4	—	—	1	210	205	1	—	—	4
17	2	2	—	—	—	—	35	26	2	—	—	7
16	23	1	—	17	—	5	40	3	2	17	—	18
15	17	—	—	15	—	2	37	18	—	15	—	4
14	31	—	—	28	—	3	25	—	1	18	—	6
13	2	—	—	2	—	—	4	1	—	2	—	1
≤ 12	192	—	17	48	—	127	182	4	11	55	—	112
<b>Total trips:</b>												<b>1,904</b>

**ECORSE, MI**

	Inbound						Outbound					
Grand Total	124	44	1	39	4	36	127	44	1	40	6	36
<b>FOREIGN</b>												
<b>Total</b>	<b>63</b>	<b>43</b>	<b>1</b>	<b>12</b>	<b>4</b>	<b>3</b>	<b>71</b>	<b>42</b>	<b>1</b>	<b>15</b>	<b>6</b>	<b>7</b>
23	13	13	—	—	—	—	12	12	—	—	—	—
22	7	7	—	—	—	—	6	6	—	—	—	—
21	8	7	1	—	—	—	6	6	—	—	—	—
20	3	3	—	—	—	—	4	4	—	—	—	—
19	5	5	—	—	—	—	5	5	—	—	—	—
18	4	4	—	—	—	—	5	5	—	—	—	—
17	—	—	—	—	—	—	2	1	—	—	—	1
16	1	1	—	—	—	—	4	1	—	2	—	1
15	—	—	—	—	—	—	1	1	—	—	—	—
14	—	—	—	—	—	—	1	1	—	—	—	—
13	3	—	—	2	—	1	4	—	1	4	—	5
≤ 12	19	3	—	10	4	2	21	—	1	9	6	5

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**ECORSE - continued**

Inbound

Outbound

**DOMESTIC**

<b>Total</b>	<b>61</b>	<b>1</b>	<b>---</b>	<b>27</b>	<b>---</b>	<b>33</b>	<b>56</b>	<b>2</b>	<b>---</b>	<b>25</b>	<b>---</b>	<b>29</b>
20	1	1	---	---	---	---	---	2	---	---	---	---
18	---	---	---	---	---	---	2	2	---	---	---	---
14	7	---	---	7	---	---	8	---	6	---	---	2
13	2	---	---	---	2	---	46	---	19	---	27	---
≤ 12	51	---	---	20	---	31	46	---	---	---	251	---
<b>Total trips:</b>												<b>251</b>

**TRENTON, MI**

Inbound

Outbound

<b>Grand Total</b>	<b>1,032</b>	<b>1,023</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1,030</b>	<b>1,023</b>	<b>5</b>	<b>1</b>	<b>---</b>	<b>1</b>
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**FOREIGN**

<b>Total</b>	<b>967</b>	<b>962</b>	<b>3</b>	<b>1</b>	<b>---</b>	<b>1</b>	<b>966</b>	<b>962</b>	<b>4</b>	<b>---</b>	<b>---</b>	<b>---</b>
26	10	10	---	---	---	---	---	---	---	---	---	---
25	1	1	---	---	---	---	2	2	---	---	---	---
24	---	---	---	---	---	---	7	7	---	---	---	---
23	1	1	---	---	---	---	2	2	---	---	---	---
22	---	---	---	---	---	---	1	1	---	---	---	---
20	---	---	---	---	---	---	1	1	---	---	---	---
17	2	2	---	2	---	---	1	1	1	---	---	---
16	---	---	---	---	---	---	1	1	1	---	---	---
15	1	1	---	1	---	---	2	2	2	---	---	---
≤ 12	952	950	---	1	---	1	950	950	---	---	---	---

**DOMESTIC**

<b>Total</b>	<b>65</b>	<b>61</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>64</b>	<b>61</b>	<b>1</b>	<b>1</b>	<b>---</b>	<b>1</b>
27	27	26	---	1	1	1	---	---	---	---	---	---
26	12	12	---	---	---	---	---	---	---	---	---	---
25	3	3	---	---	---	---	2	1	1	1	---	---
23	17	17	---	---	---	---	2	1	1	1	---	---
22	3	3	---	---	---	---	---	---	---	---	---	---
21	1	1	1	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	8	8	---	---	---	---
19	---	---	---	---	---	---	4	4	---	---	---	---
18	---	---	---	---	---	---	13	13	---	---	---	---
17	---	---	---	---	---	---	2	2	---	---	---	---
16	---	---	---	---	---	---	3	3	---	---	---	---
15	---	---	---	---	---	---	22	22	---	---	---	---
13	1	1	---	1	1	1	1	8	1	1	1	1
≤ 12	1	1	---	1	1	1	9	8	---	---	---	2,062
<b>Total trips:</b>												<b>2,062</b>

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**PORT OF DETROIT, MI**

Grand Total	Inbound						Outbound					
	2,997	1,828	67	539	260	303	2,721	1,811	50	462	219	179

**FOREIGN**

<b>Total</b>	<b>1,886</b>	<b>1,204</b>	<b>12</b>	<b>348</b>	<b>259</b>	<b>63</b>	<b>1,806</b>	<b>1,202</b>	<b>16</b>	<b>305</b>	<b>219</b>	<b>64</b>
27	1	1	—	—	—	—	11	11	—	—	—	—
26	61	61	—	—	—	—	17	16	1	—	—	—
25	20	18	1	—	1	—	31	31	—	—	—	—
24	27	27	—	—	—	—	47	47	—	—	—	—
23	30	30	—	—	—	—	29	29	—	—	—	—
22	21	21	—	—	—	—	29	28	1	—	—	—
21	25	23	2	—	—	—	35	34	1	—	—	—
20	18	16	2	—	—	—	17	15	2	—	—	—
19	19	19	—	—	—	—	11	10	1	—	—	—
18	13	12	1	—	—	—	8	3	2	—	—	3
17	3	—	3	—	—	—	4	14	2	6	1	2
16	9	1	1	3	—	—	1	8	3	—	1	2
15	4	—	2	—	1	—	8	2	3	—	1	2
14	6	2	—	1	—	3	9	7	—	—	—	2
13	18	11	—	3	—	4	29	8	1	7	—	13
≤ 12	1,611	962	—	341	257	51	1,511	958	2	292	217	42

**DOMESTIC**

<b>Total</b>	<b>1,111</b>	<b>624</b>	<b>55</b>	<b>191</b>	<b>1</b>	<b>240</b>	<b>915</b>	<b>609</b>	<b>34</b>	<b>157</b>	<b>—</b>	<b>115</b>
28	18	18	—	—	—	—	—	—	—	—	—	—
27	165	164	—	—	1	—	—	—	—	—	—	—
26	70	70	—	—	—	—	—	—	—	—	—	—
25	71	71	—	—	—	—	—	—	—	—	—	—
24	65	65	—	—	—	—	1	1	—	—	—	—
23	69	69	—	—	—	—	5	4	1	—	—	—
22	52	52	—	—	—	—	7	7	—	—	—	—
21	32	29	3	—	—	—	72	72	—	—	—	—
20	39	28	11	—	—	—	32	19	13	—	—	—
19	28	27	1	—	—	—	56	55	1	—	—	—
18	11	6	4	—	—	1	268	263	1	—	—	4
17	8	4	3	—	—	1	75	67	2	—	—	6
16	34	7	2	20	—	5	43	9	2	14	—	18
15	29	7	1	18	—	3	60	45	—	12	—	3
14	13	4	1	—	—	8	53	33	—	19	—	1
13	53	2	4	45	—	2	32	6	11	14	—	1
≤ 12	354	1	25	108	—	220	211	28	3	98	—	82

Total trips: 5,718

**MONROE HARBOR, MI**

Grand Total	Inbound						Outbound					
	50	50	—	—	—	—	47	47	—	—	—	—
<b>FOREIGN</b>	—	—	—	—	—	—	—	—	—	—	—	—
<b>Total</b>	7	7	—	—		—	6	6	—	—		—

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**MONROE HARBOR - continued**  
Inbound

Outbound

## FOREIGN

24	---	---	---	---	---	---	1	1	---	---	---	---
23	---	---	---	---	---	---	2	2	---	---	---	---
22	6	6	---	---	---	---	2	2	---	---	---	---
21	1	1	---	---	---	---	1	1	---	---	---	---

## DOMESTIC

Total	43	43	---	---	---	---	41	41	---	---	---	---
25	31	31	---	---	---	---	---	---	---	---	---	---
24	8	8	---	---	---	---	---	---	---	---	---	---
23	2	2	---	---	---	---	1	1	---	---	---	---
21	2	2	---	---	---	---	4	4	---	---	---	---
20	---	---	---	---	---	---	1	1	---	---	---	---
19	---	---	---	---	---	---	13	13	---	---	---	---
18	---	---	---	---	---	---	2	2	---	---	---	---
17	---	---	---	---	---	---	5	5	---	---	---	---
14	---	---	---	---	---	---	15	15	---	---	---	---
10	---	---	---	---	---	---						

Total trips: 97

**CALCITE, MI**

Inbound

Outbound

Grand Total	570	567	---	1	1	1	577	574	---	1	1	1
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## FOREIGN

Total	95	93	---	1	---	1	91	89	---	1	---	1
27	---	---	---	---	---	---	1	1	---	---	---	---
26	---	---	---	---	---	---	34	34	---	---	---	---
25	---	---	---	---	---	---	27	27	---	---	---	---
24	7	7	---	---	---	---	3	3	---	---	---	---
23	28	28	---	---	---	---	20	20	---	---	---	---
22	21	21	---	---	---	---	2	2	---	---	---	---
21	7	7	---	---	---	---	2	2	---	---	1	1
20	24	24	---	---	---	1	1	---	---	---	---	---
19	7	6	---	1	---	1	1	1	---	1	---	---
10	1	---	---	1	---	1	1	1	---	1	---	1

## DOMESTIC

Total	475	474	---	1	---	1	486	485	---	1	---	1
26	2	2	---	---	---	---	89	89	---	---	---	---
25	2	2	---	---	---	---	134	134	---	---	---	---
24	5	5	---	---	---	---	28	28	---	---	---	---
23	15	15	---	---	---	---	77	77	---	---	1	1
22	21	21	---	---	---	---	56	56	---	---	---	---
21	76	76	---	---	---	---	68	67	---	1	---	---
20	10	10	---	---	---	---	26	26	---	---	---	---
19	36	36	---	---	---	---	3	3	---	---	---	---
18	119	119	---	---	---	---	2	2	---	---	---	---

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**CALCITE - continued**

Inbound													Outbound							
<b>DOMESTIC</b>																				
17	109	109	---	---	---	---	1	1	1	---	---	---	Total trips:	1,147						
16	18	18	---	---	---	---				---	---	---								
15	29	28	---	---	---	1				---	---	---								
14	3	3	---	---	---					---	---	---								
13	7	7	---	---	---					---	---	---								
10	23	23	---	---	---		2	2	2	---	---	---								

**ESCANABA, MI**

Grand Total	Inbound						Outbound					
	288	208	9	42	1	28	296	212	9	45	1	29

**FOREIGN**

Total	11	---	9	1	---	1	11	---	9	1	---	1
21	1	---	1	---	---	---	2	---	2	---	---	---
20	1	---	1	---	---	---	2	---	2	---	---	---
19	2	---	2	---	---	1	---	---	---	---	---	---
18	5	---	4	---	---	1	---	---	---	---	---	---
17	1	---	1	---	---	---	3	---	3	---	---	---
16	---	---	---	---	---	---	4	---	4	---	---	---
13	---	---	---	---	1	---	1	---	1	---	---	---
10	1	---	1	---	---	---	1	---	1	---	---	1
8	---	---	---	---	1	---	1	---	1	---	---	1

**DOMESTIC**

Total	277	208	---	41	1	27	285	212	---	44	1	28
30	---	---	---	---	---	1	1	1	---	---	---	---
29	---	---	---	---	---	14	14	14	---	---	---	---
28	---	---	---	---	---	79	79	79	---	---	---	---
27	---	---	---	---	---	76	75	75	---	1	1	---
26	---	---	---	---	---	14	14	14	---	---	---	---
23	24	24	---	---	---	---	1	1	1	---	---	---
22	33	33	---	---	---	---	1	1	1	---	---	---
21	86	78	---	---	8	5	9	9	9	---	---	---
20	9	4	---	---	3	1	2	2	1	---	1	1
19	14	11	---	---	1	1	4	3	3	---	1	1
18	21	20	---	---	1	1	12	11	11	---	1	1
17	2	1	---	---	1	1	2	2	2	---	1	1
16	26	4	21	---	1	1	24	1	1	22	1	1
15	6	3	---	1	2	1	1	1	1	2	1	1
14	2	---	1	---	1	1	20	20	20	20	18	18
13	17	---	17	---	1	1	20	20	20	20	20	20
12	2	---	2	---	---	---	---	---	---	---	---	---
11	1	---	1	---	1	1	---	---	---	---	---	---
10	30	30	---	---	3	1	1	3	1	1	1	1
9	3	---	---	---	1	1	2	2	2	2	3	3
3	1	---	1	---	1	1	1	1	1	1	2	2

Total trips: 584

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**STONEPORT, MI**

## Inbound

## Outbound

<b>Grand Total</b>	<b>456</b>	<b>423</b>	<b>----</b>	<b>11</b>	<b>22</b>	<b>----</b>	<b>471</b>	<b>427</b>	<b>----</b>	<b>21</b>	<b>23</b>	<b>----</b>
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**FOREIGN**

<b>Total</b>	<b>36</b>	<b>36</b>	<b>----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>	<b>37</b>	<b>37</b>	<b>----</b>	<b>-----</b>	<b>-----</b>	<b>-----</b>
27	---	---	---	---	---	---	6	6	----	-----	-----	-----
26	---	---	---	---	---	---	15	15	----	-----	-----	-----
25	1	1	----	-----	-----	-----	3	3	----	-----	-----	-----
24	12	12	----	-----	-----	-----	8	8	----	-----	-----	-----
23	8	8	----	-----	-----	-----	1	1	----	-----	-----	-----
22	5	5	----	-----	-----	-----	3	3	----	-----	-----	-----
21	6	6	----	-----	-----	-----	1	1	----	-----	-----	-----
20	2	2	----	-----	-----	-----	-----	-----	----	-----	-----	-----
19	1	1	----	-----	-----	-----	-----	-----	----	-----	-----	-----
15	1	1	----	-----	-----	-----	-----	-----	----	-----	-----	-----

**DOMESTIC**

<b>Total</b>	<b>420</b>	<b>387</b>	<b>----</b>	<b>11</b>	<b>22</b>	<b>----</b>	<b>434</b>	<b>390</b>	<b>----</b>	<b>21</b>	<b>23</b>	<b>----</b>
27	---	---	----	-----	-----	-----	1	1	----	-----	-----	-----
26	5	5	----	-----	-----	-----	136	136	----	-----	-----	-----
25	14	14	----	-----	-----	-----	116	116	----	-----	-----	-----
24	1	1	----	-----	-----	-----	44	44	----	-----	-----	-----
23	---	---	----	-----	-----	-----	22	22	----	-----	-----	-----
22	15	15	----	-----	-----	-----	21	21	----	-----	-----	-----
21	33	33	----	-----	-----	-----	27	27	----	-----	-----	-----
20	4	4	----	-----	-----	-----	17	17	----	-----	-----	-----
19	42	42	----	-----	-----	-----	3	3	----	-----	-----	-----
18	91	91	----	-----	-----	-----	2	2	----	-----	-----	-----
17	129	129	----	-----	-----	-----	1	1	----	-----	-----	-----
16	12	12	----	-----	-----	-----	-----	-----	----	-----	-----	-----
15	20	20	----	-----	-----	-----	21	21	----	20	1	-----
14	14	4	----	10	-----	-----	6	6	----	-----	6	-----
12	---	---	----	-----	-----	-----	5	5	----	-----	5	-----
11	---	---	----	-----	-----	-----	2	2	----	1	1	-----
10	18	17	----	1	-----	-----	7	7	----	7	7	-----
9	---	---	----	-----	-----	-----	3	3	----	3	3	-----
2	22	---	----	-----	22	-----	-----	-----	-----	-----	-----	-----

Total trips: 927

**ALGOMA HARBOR, WI**  
No Vessel Trips Reported**ALGONAC, MI**  
No Vessel Trips Reported**AU SABLE HARBOR AND RIVER (OSCODA), MI**  
No Vessel Trips Reported

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels				Self Propelled Vessels				Non-Self Propelled Vessels			
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug

**BIG BAY HARBOR, MI**  
No Vessel Trips Reported

**BLACK RIVER HARBOR, MI**  
No Vessel Trips Reported

**CASEVILLE, MI**  
No Vessel Trips Reported

**CEDAR RIVER HARBOR, MI**  
(No Vessel Trips Reported)

(21 feet and less)														
<b>Grand Total</b>	Inbound						Outbound							
	404	341	1	31	---		31	402	341	1	30	---		30
													<b>Total trips:</b>	

(19 feet and less)														
<b>Grand Total</b>	Inbound						Outbound							
	11,300	11,300	---	---	---	---	11,301	11,301	---	---	---	---		22,601
													<b>Total trips:</b>	

(10 feet and less)														
<b>Grand Total</b>	Inbound						Outbound							
	3,493	3,493	---	---	---	---	3,493	3,493	---	---	---	---		6,986
													<b>Total trips:</b>	

**EAGLE HARBOR, MI**  
No Vessel Trips Reported

(20 feet and less)														
<b>Grand Total</b>	Inbound						Outbound							
	30	---	6	12	---		12	27	---	6	11	---		10
													<b>Total trips:</b>	

(24 feet and less)														
<b>Grand Total</b>	Inbound						Outbound							
	19	9	---	5	---		5	19	9	5	---			5
													<b>Total trips:</b>	

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**GRAND MARAIS HARBOR (HARBOR OF REFUGE), MI**  
No Vessel Trips Reported

**GRAND TRAVERSE BAY HARBOR, MI**  
No Vessel Trips Reported

**HARBOR BEACH, MI (HARBOR OF REFUGE, LAKE HURON)**  
(22 feet and less)

	Inbound	Outbound
<b>Grand Total</b>	6      6      ----      ----      ----	6      6      ----      ----      ----
		<b>Total trips:</b> 12

**HARRISVILLE HARBOR, MI (HARBOR OF REFUGE, LAKE HURON)**  
No Vessel Trips Reported

**KENOSHA HARBOR, WI**  
No Vessel Trips Reported

**KEWAUNEE HARBOR, WI**  
(19 feet and less)

	Inbound	Outbound
<b>Grand Total</b>	341      341      ----      ----      ----	341      341      ----      ----      ----
		<b>Total trips:</b> 682

**KEWEENAW WATERWAY, MI**  
(26 feet and less)

	Upbound	Downbound
<b>Grand Total</b>	93      60      ----      16      17      ----	94      62      ----      16      15      1
		<b>Total trips:</b> 187

**LAC LA BELLE HARBOR, MI**  
No Vessel Trips Reported

**LELAND HARBOR, MI**  
(6 feet and less)

	Inbound	Outbound
<b>Grand Total</b>	237      237      ----      ----      ----	237      237      ----      ----      ----
		<b>Total trips:</b> 474

**LIME ISLAND, MI**  
No Vessel Trips Reported

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**MACKINAC HARBOR, MI**  
(9 feet and less)

	Inbound						Outbound					
<b>Grand Total</b>	<b>13,056</b>	<b>13,056</b>	---	---	---	---	<b>13,553</b>	<b>13,553</b>	---	---	---	<b>Total trips:</b> <b>26,609</b>

**MACKINAW CITY HARBOR, MI**  
(23 feet and less)

	Inbound						Outbound					
<b>Grand Total</b>	<b>5,238</b>	<b>5,190</b>	<b>35</b>	<b>7</b>	---	<b>6</b>	<b>5,229</b>	<b>5,195</b>	<b>21</b>	<b>7</b>	---	<b>Total trips:</b> <b>10,467</b>

**MANISTIQUE HARBOR, MI**  
No Vessel Trips Reported

	Inbound						Outbound					
<b>Grand Total</b>	<b>125</b>	<b>110</b>	<b>5</b>	<b>10</b>	---	---	<b>124</b>	<b>110</b>	<b>4</b>	<b>10</b>	---	<b>Total trips:</b> <b>249</b>

**MENOMINEE HARBOR AND RIVER, MI AND WI**  
(26 feet and less)

	Inbound						Outbound					
<b>Grand Total</b>	<b>14</b>	<b>14</b>	---	---	---	---	<b>14</b>	<b>14</b>	---	---	---	<b>Total trips:</b> <b>28</b>

**NEW BUFFALO HARBOR, MI**  
No Vessel Trips Reported**OCONTO HARBOR, WI**  
No Vessel Trips Reported

	Inbound						Outbound					
<b>Grand Total</b>	<b>11</b>	<b>11</b>	---	---	---	---	<b>10</b>	<b>10</b>	---	---	---	<b>Total trips:</b> <b>21</b>

**PENSAUKEE HARBOR, WI**  
No Vessel Trips Reported

## WCSC: GREAT LAKES

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels			Non-Self Propelled Vessels		Self Propelled Vessels			Non-Self Propelled Vessels		
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo

**PENTWATER HARBOR, MI**  
No Vessel Trips Reported

**PORT SANILAC HARBOR, MI**  
No Vessel Trips Reported

**PORT WASHINGTON HARBOR, WI**  
(25 feet and less)

	Inbound						Outbound					
<b>Grand Total</b>	8	8	---	---	---	---	8	8	---	---	---	<b>Total trips:</b> 16

**PUT-IN-BAY HARBOR, OH**  
(9 feet and less)

	Inbound						Outbound					
<b>Grand Total</b>	3,857	3,857	---	---	---	---	3,859	3,859	---	---	---	<b>Total trips:</b> 7,716

**RACINE HARBOR, WI**  
No Vessel Trips Reported

**ROGERS CITY, MI**  
No Vessel Trips Reported

**SAUGATUCK HARBOR AND KALAMAZOO RIVER, MI**  
(7 feet and less)

	Upbound						Downbound					
<b>Grand Total</b>	310	310	---	---	---	---	310	310	---	---	---	<b>Total trips:</b> 620

**SAULT STE. MARIE, MI**  
(23 feet and less)

	Inbound						Outbound					
<b>Grand Total</b>	17,505	17,489	---	12	4	---	17,497	17,482	---	11	3	<b>Total trips:</b> 35,002

**SEBEWAING, MI**  
No Vessel Trips Reported

**SHEBOYGAN HARBOR, WI**  
(22 feet and less)

	Inbound						Outbound					
<b>Grand Total</b>	21	2	---	11	---	8	20	2	---	11	7	<b>Total trips:</b> 41

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**SOUTH HAVEN HARBOR, MI**  
No Vessel Trips Reported

**ST. JAMES (BEAVER ISLAND), MI**  
(9 feet and less)

Grand Total	Inbound						Outbound					
	343	343	----	----	----	----	343	343	----	----	----	686

**STURGEON BAY AND LAKE MICHIGAN SHIP CANAL, WI**  
(24 feet and less)

Grand Total	Upbound						Downbound					
	119	113	1	4	----	1	137	129	1	5	----	2

**TRAVERSE CITY HARBOR, MI**  
(19 feet and less)

Grand Total	Inbound						Outbound					
	81	4	2	37	----	38	87	4	3	41	----	39

**TWO RIVERS HARBOR, WI**  
No Vessel Trips Reported

**WHITE LAKE HARBOR, MI**  
No Vessel Trips Reported

**WHITEFISH POINT HARBOR, MI**  
No Vessel Trips Reported

Grand Total	Inbound						Outbound					
	12	12	----	----	----	----	12	12	----	----	----	24

**ALABASTER, MI**  
(24 feet and less)

Grand Total	Inbound						Outbound					
	41	41	----	----	----	----	44	44	----	----	----	85

## WCSC: GREAT LAKES

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels				Self Propelled Vessels				Non-Self Propelled Vessels			
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug

**MARBLEHEAD, OH**  
(24 feet and less)

	Inbound						Outbound								
<b>Grand Total</b>	4,162	4,101	----	----	15	46	4,162	4,103	----	----	15	44	<b>Total trips:</b>	15	44

**PORT DOLOMITE, MI**  
(26 feet and less)

	Inbound						Outbound								
<b>Grand Total</b>	286	285	----	1	----	----	285	284	----	----	1	----	<b>Total trips:</b>	1	571

**PORT GYPSUM, MI**  
(27 feet and less)

	Inbound						Outbound								
<b>Grand Total</b>	40	39	----	----	1	----	38	37	----	----	1	----	<b>Total trips:</b>	1	78

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

## TOLEDO HARBOR, OH

Grand Total	Inbound							Outbound					
	966	740	40	95	4	87	966	731	44	90	6	95	

## FOREIGN

Total	340	306	19	4	4	7	352	303	31	2	5	11
29	—	—	—	—	—	—	1	—	—	—	—	—
28	—	—	—	—	—	—	22	22	—	—	—	—
27	7	7	—	—	—	—	87	87	—	—	—	—
26	35	34	1	—	—	—	24	23	—	1	—	—
25	28	28	—	—	—	—	19	19	—	—	—	—
24	69	69	—	—	—	—	18	17	1	—	—	—
23	77	76	1	—	—	—	61	59	2	—	—	—
22	36	35	1	—	—	—	21	20	1	—	—	—
21	19	16	3	—	—	—	23	20	3	—	—	—
20	23	22	1	—	—	—	29	22	7	3	—	—
19	4	4	—	—	—	—	10	7	3	—	—	—
18	5	2	3	—	—	—	5	2	—	—	—	—
17	2	2	—	—	—	—	2	1	—	—	1	—
16	7	2	5	—	—	—	6	—	6	—	—	—
15	5	2	3	—	—	—	4	3	1	—	—	—
14	8	5	—	2	1	—	1	—	—	—	—	1
13	2	1	—	—	—	—	6	—	2	—	—	4
≤ 12	13	1	1	2	2	7	13	—	1	2	4	6

## DOMESTIC

Total	626	434	21	91	—	80	614	428	13	88	1	84
29	25	25	—	—	—	—	—	—	—	—	—	—
28	14	14	—	—	—	—	—	—	—	—	—	—
27	6	6	—	—	—	—	—	—	—	—	—	—
26	95	95	—	—	—	—	10	10	—	—	—	—
25	2	2	—	—	—	—	2	2	—	—	—	—
24	22	22	—	—	—	—	11	11	—	—	—	—
23	12	12	—	—	—	—	60	56	4	—	—	—
22	13	13	—	—	—	—	33	33	—	—	—	—
21	24	24	—	—	—	—	81	79	2	—	—	—
20	8	8	—	—	—	—	40	38	1	—	1	—
19	16	16	—	—	—	—	27	27	—	—	—	—
18	89	89	—	—	—	—	89	89	—	—	—	—
17	57	55	1	—	—	1	14	14	—	—	—	—
16	9	7	—	—	—	2	5	2	—	1	—	2
15	18	14	—	4	—	—	10	6	—	4	—	4
14	70	24	—	46	—	—	59	14	—	41	—	4
13	11	4	1	6	—	—	12	3	2	6	—	1
≤ 12	165	34	19	35	—	77	161	44	4	36	—	77

Total trips: 1,932

## WCSC: GREAT LAKES

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
<b>SANDUSKY HARBOR, OH</b>												
Inbound												
<b>Grand Total</b>	<b>3,006</b>	<b>3,005</b>	<b>1</b>	----	----	----	<b>3,010</b>	<b>3,008</b>	<b>1</b>	----	----	<b>1</b>
FOREIGN												
Total	237	236	1	----	----	----	243	241	1	----	----	1
29	—	—	—	—	—	—	3	3	—	—	—	—
28	—	—	—	—	—	—	9	9	—	—	—	—
27	2	2	—	—	—	—	76	76	—	—	—	—
26	3	3	—	—	—	—	14	14	—	—	—	—
25	—	—	—	—	—	—	2	2	—	—	—	—
24	30	30	—	—	—	—	4	4	—	—	—	—
23	56	56	—	—	—	—	5	5	—	—	—	—
22	6	6	—	—	—	—	4	4	—	—	—	—
21	13	13	—	—	—	—	5	5	—	—	—	—
20	6	6	—	—	—	—	1	1	—	—	—	—
18	2	2	—	—	—	—	—	—	—	—	—	—
17	1	1	—	—	—	—	1	1	—	—	—	—
16	—	—	—	—	—	—	—	—	—	—	—	—
14	1	1	—	—	—	—	—	—	—	—	—	—
≤ 12	117	116	1	----	----	----	119	117	1	----	----	1
DOMESTIC												
Total	2,769	2,769	—	—	—	—	2,767	2,767	—	—	—	—
27	—	—	—	—	—	—	1	1	—	—	—	—
26	—	—	—	—	—	—	4	4	—	—	—	—
25	—	—	—	—	—	—	4	4	—	—	—	—
24	—	—	—	—	—	—	24	24	—	—	—	—
23	1	1	—	—	—	—	9	9	—	—	—	—
22	7	7	—	—	—	—	4	4	—	—	—	—
21	8	8	—	—	—	—	2	2	—	—	—	—
20	5	5	—	—	—	—	12	12	—	—	—	—
19	6	6	—	—	—	—	4	4	—	—	—	—
18	34	34	—	—	—	—	5	5	—	—	—	—
17	3	3	—	—	—	—	1	1	—	—	—	—
16	4	4	—	—	—	—	2	2	—	—	—	—
15	1	1	—	—	—	—	7	7	—	—	—	—
≤ 12	2,700	2,700	—	—	—	—	2,688	2,688	—	—	—	—
											Total trips:	6,016

Grand Total	Inbound						Outbound					
	43	43	—	—	—	—	43	42	—	—	—	1
FOREIGN												
Total	8	8	—	—	—	—	9	8	—	—	—	1
24	4	4	—	—	—	—	—	—	—	—	—	—
23	4	4	—	—	—	—	—	—	—	—	—	—
22	—	—	—	—	—	—	2	2	—	—	—	—
21	—	—	—	—	—	—	2	2	—	—	—	—

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**HURON HARBOR - continued**

	Inbound						Outbound					
<b>FOREIGN</b>												
20	—	—	—	—	—	—	4	—	4	—	—	—
14	—	—	—	—	—	—	1	—	—	—	—	1
<b>DOMESTIC</b>												
<b>Total</b>	<b>35</b>	<b>35</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>34</b>	<b>34</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>
26	8	8	—	—	—	—	—	—	—	—	—	—
25	15	15	—	—	—	—	—	—	—	—	—	—
23	6	6	—	—	—	—	—	—	—	—	—	—
22	—	—	—	—	—	—	4	—	4	—	—	—
21	—	—	—	—	—	—	4	—	4	—	—	—
20	2	2	—	—	—	—	—	—	—	—	—	—
18	—	—	—	—	—	—	17	—	17	—	—	—
17	—	—	—	—	—	—	5	—	5	—	—	—
≤ 12	4	4	—	—	—	—	4	—	4	—	—	—
<b>Total trips:</b>												<b>86</b>

**LORAIN HARBOR, OH**

	Inbound						Outbound					
Grand Total	769	763	—	1	5	—	766	760	—	—	6	—
<b>FOREIGN</b>												
<b>Total</b>	<b>15</b>	<b>14</b>	<b>—</b>	<b>1</b>	<b>—</b>	<b>—</b>	<b>15</b>	<b>15</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>
27	1	1	—	—	—	—	—	—	—	—	—	—
26	6	6	—	—	—	—	1	—	1	—	—	—
25	1	1	—	—	—	—	—	—	—	—	—	—
24	1	1	—	—	—	—	1	—	1	—	—	—
23	—	—	—	—	—	—	3	—	3	—	—	—
22	1	1	—	—	—	—	2	—	2	—	—	—
21	1	1	—	—	—	—	4	—	4	—	—	—
20	3	3	—	—	—	—	4	—	4	—	—	—
≤ 12	1	—	—	1	—	—	—	—	—	—	—	—
<b>DOMESTIC</b>												
<b>Total</b>	<b>754</b>	<b>749</b>	<b>—</b>	<b>5</b>	<b>—</b>	<b>—</b>	<b>751</b>	<b>745</b>	<b>—</b>	<b>—</b>	<b>6</b>	<b>—</b>
28	28	28	—	—	—	—	—	—	—	—	—	—
27	112	112	—	—	—	—	1	—	1	—	—	—
26	63	63	—	—	—	—	3	—	3	—	—	—
25	—	—	—	—	—	—	118	—	118	—	—	—
24	1	1	—	—	—	—	95	—	94	—	—	1
23	5	5	—	—	—	—	93	—	93	—	—	—
22	7	7	—	—	—	—	41	—	36	—	—	5
21	7	7	—	—	—	—	57	—	57	—	—	—
20	1	1	—	—	—	—	17	—	17	—	—	—
19	—	—	—	—	—	—	32	—	32	—	—	—
18	23	23	—	—	—	—	34	—	34	—	—	—
17	107	107	—	—	—	—	7	—	7	—	—	—
16	1	—	—	—	—	—	1	—	1	—	—	—

## Trips and Drafts of Vessels, 1990 (draft in feet)

Draft	Self Propelled Vessels			Non-Self Propelled Vessels		Self Propelled Vessels			Non-Self Propelled Vessels		
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo

#### **LORAIN HARBOR - continued**

## Inbound

## Outbound

DOMESTIC

15	73	73	----	----	----	5	----	7	7	----	----	-----
14	43	38	----	----	----			23	23	----	----	-----
13	7	7	----	----	----			2	2	----	----	-----
≤ 12	276	276	----	----	----			220	220	----	----	-----
												Total trips: 1,535

CLEVELAND HARBOR, OH

## Inbound

## Outbound

FOREIGN

Total	264	241	10	—	1	12	257	235	8	1	1	12
27	13	13	—	—	—	—	2	2	—	—	—	—
26	103	103	—	—	—	—	18	18	—	—	—	—
25	19	19	—	—	—	—	11	10	—	1	—	—
24	34	34	—	—	—	—	55	55	—	—	—	—
23	10	10	—	—	—	—	16	16	—	—	—	—
22	26	24	2	—	—	—	19	19	—	—	—	—
21	8	4	4	—	—	—	31	31	—	—	—	—
20	17	16	1	—	—	—	52	50	2	—	—	—
19	11	11	—	—	—	—	29	29	—	—	—	—
18	4	2	2	—	—	—	1	1	—	—	—	—
17	3	3	—	—	—	—	4	2	2	—	—	—
16	3	1	—	—	1	1	—	—	—	—	—	1
15	1	—	1	—	—	—	2	1	—	—	—	—
14	1	—	—	—	—	—	1	1	—	—	—	—
< 12	11	—	—	—	—	11	15	—	3	—	1	11

## **DOMESTIC**

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**FAIRPORT HARBOR, OH**

	Inbound						Outbound					
<b>Grand Total</b>	<b>497</b>	<b>497</b>	----	----	----	----	<b>493</b>	<b>493</b>	----	----	----	----
FOREIGN												
Total	32	32	----	----	----	----	32	32	----	----	----	----
27	1	1	----	----	----	----	1	1	----	----	----	----
26	—	—	—	—	—	—	1	1	—	—	—	—
25	4	4	—	—	—	—	13	13	—	—	—	—
24	4	4	—	—	—	—	4	4	—	—	—	—
23	4	4	—	—	—	—	1	1	—	—	—	—
22	5	5	—	—	—	—	7	7	—	—	—	—
21	3	3	—	—	—	—	2	2	—	—	—	—
20	3	3	—	—	—	—	1	1	—	—	—	—
19	2	2	—	—	—	—	—	—	—	—	—	—
18	—	—	—	—	—	—	1	1	—	—	—	—
17	—	—	—	—	—	—	1	1	—	—	—	—
15	6	6	—	—	—	—	—	—	—	—	—	—
DOMESTIC												
Total	465	465	—	—	—	—	461	461	—	—	—	—
26	17	17	—	—	—	—	—	—	—	—	—	—
25	32	32	—	—	—	—	3	3	—	—	—	—
24	21	21	—	—	—	—	8	8	—	—	—	—
23	14	14	—	—	—	—	—	—	—	—	—	—
22	10	10	—	—	—	—	3	3	—	—	—	—
21	3	3	—	—	—	—	3	3	—	—	—	—
20	2	2	—	—	—	—	3	3	—	—	—	—
19	2	2	—	—	—	—	6	6	—	—	—	—
18	—	—	—	—	—	—	27	27	—	—	—	—
17	—	—	—	—	—	—	36	36	—	—	—	—
16	7	7	—	—	—	—	4	4	—	—	—	—
15	4	4	—	—	—	—	20	20	—	—	—	—
14	—	—	—	—	—	—	1	1	—	—	—	—
13	4	4	—	—	—	—	1	1	—	—	—	—
≤ 12	349	349	—	—	—	—	346	346	—	—	—	—

**Total trips:** 990**ASHTABULA HARBOR, OH**

	Inbound						Outbound					
<b>Grand Total</b>	<b>440</b>	<b>430</b>	----	----	10	----	<b>442</b>	<b>432</b>	----	----	<b>10</b>	----
FOREIGN												
Total	184	175	—	—	9	—	184	175	—	—	9	—
29	—	—	—	—	—	—	11	11	—	—	—	—
28	1	1	—	—	—	—	15	15	—	—	—	—
27	15	15	—	—	—	—	69	69	—	—	—	—
26	23	23	—	—	—	—	18	18	—	—	—	—
25	18	18	—	—	—	—	6	6	—	—	—	—
24	76	76	—	—	—	—	6	6	—	—	—	—

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**ASHTABULA HARBOR - continued**  
Inbound

Outbound

**FOREIGN**

23	24	24	---	---	---	---	12	12	---	---	---	---
22	10	10	---	---	---	---	7	7	---	---	---	---
21	4	4	---	---	---	---	14	14	---	---	---	---
20	2	2	---	---	---	---	8	8	---	---	---	---
18	2	2	---	---	---	---	---	---	---	---	---	---
16	8	---	---	---	8	---	9	1	---	8	1	---
15	1	---	---	---	1	---	1	---	---	1	---	---
≤ 12	---	---	---	---	---	8	8	8	8	---	---	---

**DOMESTIC**

<b>Total</b>	<b>256</b>	<b>255</b>	<b>---</b>	<b>---</b>	<b>1</b>	<b>---</b>	<b>258</b>	<b>257</b>	<b>---</b>	<b>---</b>	<b>1</b>	<b>---</b>
28	22	22	---	---	---	---	---	---	---	---	---	---
27	96	95	---	---	1	---	---	---	---	---	---	---
26	47	47	---	---	---	---	4	4	---	---	---	---
25	4	4	---	---	---	---	11	11	---	---	---	---
24	---	---	---	---	---	---	4	4	---	---	---	---
23	8	8	---	---	---	---	29	29	---	---	---	---
22	3	3	---	---	---	---	6	6	---	---	---	---
21	4	4	---	---	---	---	20	20	---	---	---	---
20	3	3	---	---	---	---	39	39	---	---	---	---
19	1	1	---	---	---	---	3	3	---	---	---	---
18	31	31	---	---	---	---	53	53	---	---	---	---
17	10	10	---	---	---	---	10	10	---	---	---	---
16	2	2	---	---	---	---	22	22	---	---	1	---
15	16	16	---	---	---	---	5	4	---	---	---	---
14	3	3	---	---	---	---	---	---	---	---	---	---
≤ 12	6	6	---	---	---	---	52	52	---	---	---	---

**Total trips:** 882

**CONNEAUT HARBOR, OH**

Inbound

Outbound

<b>Grand Total</b>	<b>283</b>	<b>283</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>282</b>	<b>282</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>
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**FOREIGN**

<b>Total</b>	<b>145</b>	<b>145</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>146</b>	<b>146</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>
29	---	---	---	---	---	---	27	27	---	---	---	---
28	1	1	---	---	---	---	11	11	---	---	---	---
27	3	3	---	---	---	---	72	72	---	---	---	---
26	2	2	---	---	---	---	15	15	---	---	---	---
25	20	20	---	---	---	---	---	---	---	---	---	---
24	94	94	---	---	---	---	1	1	---	---	---	---
23	14	14	---	---	---	---	2	2	---	---	---	---
22	2	2	---	---	---	---	2	2	---	---	---	---
21	5	5	---	---	---	---	2	2	---	---	---	---
20	2	2	---	---	---	---	---	---	---	---	---	---
17	1	1	---	---	---	---	---	---	---	---	---	---
16	1	1	---	---	---	---	16	16	---	---	---	---
≤ 12	---	---	---	---	---	---	---	---	---	---	---	---

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**CONNEAUT HARBOR - continued**

Inbound Outbound

## DOMESTIC

Total	138	138	----	----	----	----	136	136	----	----	----	----
28	7	7	----	----	----	----	1	1	----	----	----	----
27	23	23	----	----	----	----	1	1	----	----	----	----
26	23	23	----	----	----	----	7	7	----	----	----	----
25	9	9	----	----	----	----	11	11	----	----	----	----
24	---	---	----	----	----	----	12	12	----	----	----	----
23	2	2	----	----	----	----	23	23	----	----	----	----
22	5	5	----	----	----	----	12	12	----	----	----	----
21	3	3	----	----	----	----	9	9	----	----	----	----
20	1	1	----	----	----	----	27	27	----	----	----	----
19	4	4	----	----	----	----	5	5	----	----	----	----
18	22	22	----	----	----	----	16	16	----	----	----	----
17	16	16	----	----	----	----	8	8	----	----	----	----
16	2	2	----	----	----	----	---	---	----	----	----	----
15	6	6	----	----	----	----	4	4	----	----	----	----
13	6	6	----	----	----	----	---	---	----	----	----	----
≤ 12	9	9	----	----	----	----	---	---	----	----	----	----

Total trips: 565

**ERIE HARBOR, PA**

Grand Total	664	660	----	3	1	----	665	661	----	4	----	----
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## FOREIGN

Total	40	38	----	1	1	----	39	38	----	1	----	----
27	1	1	----	----	----	----	2	2	----	----	----	----
26	4	4	----	----	----	----	4	4	----	----	----	----
25	4	4	----	----	----	----	1	1	----	----	----	----
24	12	12	----	----	----	----	13	13	----	----	----	----
23	4	4	----	----	----	----	4	4	----	----	----	----
22	1	1	----	----	----	----	2	2	----	----	----	----
21	7	7	----	----	----	----	2	2	----	----	----	----
20	---	---	----	----	----	----	4	4	----	----	----	----
18	3	3	----	----	----	----	---	---	----	----	----	----
17	2	2	----	----	----	----	---	---	----	----	----	----
16	---	---	----	----	----	----	2	2	----	----	----	----
15	---	---	----	----	----	----	3	3	----	----	----	----
13	---	---	----	----	----	----	1	1	----	1	----	----
≤ 12	2	---	----	1	1	----	1	---	----	1	----	----

## DOMESTIC

Total	624	622	----	2	----	----	626	623	----	3	----	----
26	2	2	----	----	----	----	---	---	----	----	----	----
25	7	7	----	----	----	----	---	---	----	----	----	----
24	3	3	----	----	----	----	---	---	----	----	----	----
23	1	1	----	----	----	----	---	---	----	----	----	----
22	1	1	----	----	----	----	---	---	----	----	----	----

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**ERIE HARBOR - continued**

Inbound	Outbound
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**DOMESTIC**

21	2	2	2	---	---	---	---	---	---	---	---	---
20	2	2	2	---	---	---	---	3	3	3	---	---
18	---	---	---	---	---	---	---	3	3	3	---	---
17	---	---	---	---	---	---	---	3	3	3	---	---
16	---	---	---	---	---	---	---	1	1	1	---	---
15	---	---	---	---	---	---	---	8	8	8	---	---
14	206	206	206	---	---	---	---	---	---	---	---	---
13	3	2	2	1	---	---	---	3	2	1	2	---
≤ 12	397	396	396	1	---	---	608	606	---	2	---	---

**Total trips:** 1,329

**BUFFALO HARBOR, NY**

Upbound	Downbound
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Grand Total	18
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**FOREIGN**

Total	35	28	---	4	3	---	29	19	---	5	3	2
25	---	---	---	---	---	---	1	1	---	---	---	---
24	1	1	---	---	---	---	3	3	---	---	---	---
23	3	3	---	---	---	---	1	1	---	---	---	---
22	---	---	---	---	---	---	9	9	---	---	---	---
21	---	---	---	---	---	---	3	3	---	---	---	---
20	3	3	---	---	---	---	---	---	---	---	---	---
19	7	7	---	---	---	---	---	---	---	---	---	---
18	5	5	---	---	---	---	---	---	---	---	---	---
17	8	8	---	---	---	---	---	---	---	2	---	1
16	2	---	---	---	2	---	3	---	2	---	1	1
15	2	1	---	---	1	---	2	1	---	1	---	1
13	---	---	---	---	---	---	1	---	3	2	---	---
≤ 12	4	---	---	4	---	---	6	1	---	2	---	---

**DOMESTIC**

Total	101	68	---	23	---	10	91	72	---	13	---	6
26	---	---	---	---	---	---	1	1	---	---	---	---
25	---	---	---	---	---	---	5	5	---	---	---	---
24	---	---	---	---	---	---	31	31	---	---	---	---
23	---	---	---	---	---	---	6	6	---	---	---	---
22	1	1	---	---	---	---	13	13	---	---	---	---
21	---	---	---	---	---	---	5	5	---	---	---	---
20	---	---	---	---	---	---	3	3	---	---	---	---
19	---	---	---	---	---	---	1	1	---	---	---	---
18	20	20	---	---	---	---	2	2	---	---	---	---
17	4	4	---	---	---	---	4	4	---	4	---	---
16	39	39	---	---	---	---	4	4	---	2	---	---
14	7	2	---	5	---	---	4	4	---	4	---	---
13	10	1	---	7	---	2	2	2	2	7	6	6
≤ 12	20	1	---	11	---	8	13	---	---	7	---	---

**Total trips:** 256

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**NIAGARA RIVER, NY**

Grand Total	Upbound						Downbound					
	63	10	31	11	1	10	78	20	34	13	---	11
<b>FOREIGN</b>												
Total	18	1	15	1	1	---	30	4	23	2	---	1
20	---	---	---	---	---	---	10	---	10	---	---	---
19	---	---	---	---	---	---	10	---	10	---	---	---
18	---	---	---	---	---	---	2	---	2	---	---	---
17	2	---	2	---	---	---	---	---	---	---	---	---
16	7	---	7	---	---	---	2	---	1	1	---	---
13	5	---	5	---	---	---	1	---	1	1	---	---
≤ 12	4	1	1	1	1	---	5	4	---	---	---	1
<b>DOMESTIC</b>												
Total	45	9	16	10	---	10	48	16	11	11	---	10
21	---	---	2	---	---	---	4	2	2	2	---	---
20	2	---	2	---	---	---	18	12	6	6	---	---
19	---	---	---	---	---	---	3	2	1	1	---	---
18	2	2	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	3	---	---	---	---	3
16	3	---	3	---	---	---	10	---	4	4	---	6
15	8	5	3	3	---	---	3	---	3	3	---	---
13	2	2	3	3	---	---	---	2	4	4	1	1
≤ 12	28	---	14	4	---	10	7	---	2	4	---	1
<b>Total trips:</b>												141

**PORT OF BUFFALO, NY**

Grand Total	Inbound						Outbound					
	198	108	33	35	3	19	189	104	32	30	4	19
<b>FOREIGN</b>												
Total	55	19	23	7	3	3	52	28	15	5	4	---
25	1	1	---	---	---	---	1	1	---	---	---	---
24	3	3	---	---	---	---	3	3	---	---	---	---
23	1	1	---	---	---	---	---	---	---	---	---	---
22	9	9	---	---	---	---	---	---	---	---	---	---
21	3	3	---	---	---	---	---	---	---	---	---	---
20	10	---	10	---	---	---	3	3	---	---	---	---
19	10	---	10	---	---	---	7	7	---	---	---	---
18	2	---	2	---	---	---	5	5	---	---	---	---
17	---	---	---	---	---	---	10	8	2	7	2	1
16	5	1	1	3	1	1	9	---	1	5	1	---
15	2	1	---	---	1	1	2	1	---	5	1	---
13	2	1	---	1	2	1	5	1	1	5	1	---
≤ 12	7	1	---	3	2	1	7	---	1	5	1	---

## Trips and Drafts of Vessels, 1990 (draft in feet)

Draft	Self Propelled Vessels			Non-Self Propelled Vessels		Self Propelled Vessels			Non-Self Propelled Vessels		
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo

**PORT OF BUFFALO - continued**

Inbound

## Outbound

## **DOMESTIC**

## **OSWEGO HARBOR, NY**

## Inbound

## Outbound

FOREIGN

Total	279	130	100	3	35	11	284	133	101	3	35	12
29	1	1	—	—	—	—	—	—	—	—	—	—
25	1	1	—	—	—	—	—	—	—	—	—	—
24	1	1	—	—	—	—	—	1	1	—	—	—
23	3	2	1	—	—	—	—	1	1	—	—	—
22	37	21	16	—	—	—	—	5	4	—	—	—
21	42	6	36	—	—	—	—	21	20	—	—	—
20	65	20	45	—	—	—	—	9	9	—	—	—
19	15	14	1	—	—	—	—	9	6	3	—	—
18	25	21	1	—	—	3	48	44	33	—	—	—
17	1	1	—	—	—	—	8	3	5	—	—	—
16	2	—	—	—	2	—	58	—	50	—	7	1
15	33	—	—	1	31	1	34	—	8	1	24	1
14	2	2	—	—	—	—	6	—	6	—	—	—
13	2	—	—	1	—	1	6	1	2	1	1	1
< 12	49	40	—	1	2	6	78	44	22	1	3	8

## **DOMESTIC**

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**BARCELONA HARBOR, NY**  
No Vessel Trips Reported

**CAPE VINCENT, NY**  
No Vessel Trips Reported

**DUNKIRK HARBOR, NY**  
No Vessel Trips Reported

**GREAT SODUS BAY HARBOR, NY**  
No Vessel Trips Reported

**KELLEYS ISLAND, OH**  
(8 feet and less)

	Inbound						Outbound					
<b>Grand Total</b>	4,249	4,249	----	----	----	----	4,249	4,249	----	----	<b>Total trips:</b>	8,498

**NIAGARA FALLS, NY**  
No Vessel Trips Reported

**OGDENSBURG HARBOR, NY**  
(22 feet and less)

	Inbound						Outbound					
<b>Grand Total</b>	28	28	----	----	----	----	30	30	----	----	<b>Total trips:</b>	58

**PORT CLINTON HARBOR, OH**  
(10 feet and less)

	Inbound						Outbound					
<b>Grand Total</b>	38	38	----	----	----	----	36	36	----	----	<b>Total trips:</b>	74

**ROCHESTER (CHARLOTTE) HARBOR, NY**  
(19 feet and less)

	Inbound						Outbound					
<b>Grand Total</b>	46	46	----	----	----	----	46	46	----	----	<b>Total trips:</b>	92

**SACKETS HARBOR, NY**  
No Vessel Trips Reported

## WCSC: GREAT LAKES

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

**TONAWANDA HARBOR, NY**  
(20 feet and less)

Upbound

Downbound

<b>Grand Total</b>	39	----	36	2	----	1	39	----	36	2	----	1
												78
												Total trips:

**VERMILION HARBOR, OH**  
No Vessel Trips Reported**WADDINGTON HARBOR, NY**  
No Vessel Trips Reported

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels					Non-Self Propelled Vessels		Self Propelled Vessels					Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker		

**ILLINOIS RIVER, IL**

Grand	Upbound							Downbound						
	Total	25,347	5	4	3,946	18,030	3,362	25,353	5	2	3,952	18,031	3,363	
<b>DOMESTIC</b>														
Total	25,347	5	4	3,946	18,030	3,362	25,353	5	2	3,952	18,031	3,363		
13	1	—	—	—	1	—	4	—	—	—	—	4	—	
12	78	—	—	—	34	44	59	—	—	—	—	37	—	22
11	227	—	—	10	172	45	119	—	—	—	11	92	—	16
10	686	—	2	48	513	123	927	—	1	69	764	—	93	
9	6,540	—	—	1,066	4,158	1,316	7,601	4	—	1,117	5,742	—	738	
8	5,114	—	—	1,058	3,254	802	7,583	1	1	1,083	6,100	—	398	
7	1,313	—	—	1,052	145	116	1,362	—	—	992	333	—	37	
6	618	1	—	468	88	61	584	—	—	431	82	—	71	
5	347	—	—	233	96	18	257	—	—	219	36	—	2	
4	59	—	—	6	41	12	94	—	—	9	14	—	71	
3	54	—	—	—	45	9	159	—	—	—	7	152	—	
2	10,056	4	2	5	9,246	799	6,335	—	—	21	4,630	—	1,684	
1	254	—	—	—	237	17	269	—	—	—	190	—	79	
<b>Total trips:</b>												50,700		

**CHICAGO SANITARY AND SHIP CANAL, IL**

Grand	Upbound							Downbound						
	Total	12,553	2,025	1	2,073	5,992	2,462	10,432	—	1	1,980	5,989	2,462	
<b>DOMESTIC</b>														
Total	12,553	2,025	1	2,073	5,992	2,462	10,432	—	1	1,980	5,989	2,462		
≤ 12	12,553	2,025	1	2,073	5,992	2,462	10,432	—	1	1,980	5,989	2,462		
<b>Total trips:</b>												22,985		

**CALUMET-SAG CHANNEL, IL**

Grand	Upbound							Downbound						
	Total	2,220	—	—	357	1,093	770	4,216	2,024	—	333	1,119	740	
<b>DOMESTIC</b>														
Total	2,220	—	—	357	1,093	770	4,216	2,024	—	333	1,119	740		
12	4	—	—	—	3	1	4	—	—	—	—	—	4	
11	8	—	—	—	3	5	10	—	—	—	—	1	9	
10	116	—	—	13	96	7	88	—	—	19	24	45		
9	495	—	—	20	345	130	604	—	—	19	250	335		
8	531	—	—	259	187	85	599	—	—	265	277	57		
7	255	—	—	58	184	13	130	—	—	29	69	32		
6	20	—	—	6	9	5	29	—	—	—	21	8		
5	3	—	—	—	1	2	2,039	2,024	—	—	—	10	5	
4	8	—	—	—	7	1	4	—	—	—	—	1	3	
3	—	—	—	—	—	—	3	—	—	—	—	—	3	

Trips and Drafts of Vessels, 1990  
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels				Self Propelled Vessels				Non-Self Propelled Vessels			
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug

**CALUMET-SAG CHANNEL - continued**  
Upbound

Downbound

## DOMESTIC

2	748	—	—	—	1	240	507	671	—	—	—	1	440	230	
1	32	—	—	—		18	14	35	—	—	—		26	9	
															Total trips: 6,436

**ILLINOIS WATERWAY, IL**

Upbound

Downbound

Grand Total	31,269	2,029	4	5,127	19,598	4,511	29,243	5	2	5,127	19,599	4,510			
-------------	--------	-------	---	-------	--------	-------	--------	---	---	-------	--------	-------	--	--	--

## DOMESTIC

Total	31,269	2,029	4	5,127	19,598	4,511	29,243	5	2	5,127	19,599	4,510			
13	1	—	—	—	1	—	—	—	—	—	4	—	—		
≤ 12	31,268	2,029	4	5,127	19,597	4,511	29,239	5	2	5,127	19,595	4,510			
															Total trips: 60,512

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**Publication Commodity Codes Cross Reference List  
(sorted by 1990 commodity codes)**

<b>1990 Commodity</b>	<b>1989 Commodity</b>
0200 Vehicles	4115 Transported Vehicles (E.G. Ferried Autos)
.....	4116 Railway Cars (Loaded)
.....	4117 Railway Cars (Empty)
0300 Passengers	4114 Passengers Only
1100 Coal & Lignite	1121 Coal and Lignite
1200 Coke	2920 Coke, Including Petroleum Coke
2100 Crude Petroleum	1311 Crude Petroleum
2211 Gasoline	2911 Gasoline, Including Additives
.....	2912 Jet Fuel
2221 Kerosene	2913 Kerosene
2330 Distillate Fuel Oil	2914 Distillate Fuel Oil
2340 Residual Fuel Oil	2915 Residual Fuel Oil
2350 Lube Oil & Greases	2916 Lubricating Oil and Greases
2410 Petro. Jelly & Waxes	2991 Petroleum and Coal Products, NEC
2429 Naphtha & Solvents	2917 Naphtha, Mineral Spirits, Solvent, NEC
2430 Asphalt, Tar & Pitch	2918 Asphalt, Tar and Pitches
2540 Petroleum Coke	2920 Coke, Including Petroleum Coke
2640 Liquid Natural Gas	2921 Liquified Petroleum Gases, Coal Gas, Nat Gas/Liquid
2990 Petro. Products NEC	2991 Petroleum and Coal Products, NEC
.....	3113 Coke (coal & petroleum), petroleum pitches and asphalts, and naptha and solvents
3110 Nitrogenous Fert.	2871 Nitrogenous Chemical Fertilizers, Except Mixtures
3120 Phosphatic Fert.	2873 Phosphatic Chemical Fertilizers, Except Mixtures
3130 Potassic Fert.	2872 Potassic Chemical Fertilizers, Except Mixtures
3190 Fert. & Mixes NEC	1479 Natural Fertilizer Materials, NEC
.....	2879 Fertilizers and Fertilizer Materials, NEC
3211 Acyclic Hydrocarbons	2811 Crude Products from Coal, Tar, Petroleum & Nat Gas
3212 Benzene & Toluene	2817 Benzene and Toluene, Crude and Commercially Pure
3219 Other Hydrocarbons	2811 Crude Products from Coal, Tar, Petroleum & Nat Gas
3220 Alcohols	2813 Alcohols
3230 Carboxylic Acids	2819 Basic Chemicals & Basic Chemical Products, NEC
3240 Nitrogen Func Comp	2819 Basic Chemicals & Basic Chemical Products, NEC
3250 Organo-Inorgan Comp	2819 Basic Chemicals & Basic Chemical Products, NEC
3260 Organic Comp NEC	2819 Basic Chemicals & Basic Chemical Products, NEC
3271 Sulphur (Liquid)	1493 Sulphur, Liquid
3272 Sulphuric Acid	2818 Sulphuric Acid
3273 Ammonia	2819 Basic Chemicals & Basic Chemical Products, NEC
3274 Sodium Hydroxide	2810 Sodium Hydroxide (Caustic Soda)
3275 Inorg. Elel.,Oxides, & Halogen Salts	2819 Basic Chemicals & Basic Chemical Products, NEC
3276 Metallic Salts	2819 Basic Chemicals & Basic Chemical Products, NEC
3279 Inorganic Chem. NEC	2819 Basic Chemicals & Basic Chemical Products, NEC
3281 Radioactive Material	2816 Radioactive & Associated Materials, Including Waste
3282 Pigments & Paints	2851 Paints, Varnishes, Lacquers, Enamels & Allied Prods
3283 Coloring Mat. NEC	2812 Dyes, Organic Pigment, Dyeing & Tanning Materials
3284 Medicines	2831 Drugs (Biological Prod, Medicinal Chem, Pharmaceut)
3285 Perfumes & Cleansers	2841 Soap, Detergents & Cleaning Preps, Perfume, Cosmetics
3286 Plastics	2821 Plastics, Cellulose & Resins, Film, Sheetng, Laminate
3291 Pesticides	2876 Insecticides, Fungicides, Pesticides & Disinfectants
3292 Starches,Gluten,Glue	2891 Miscellaneous Chemical Products
3293 Explosives	1911 Ordnance and Accessories
3297 Chemical Additives	2891 Miscellaneous Chemical Products

**Publication Commodity Codes Cross Reference List (continued)**  
**(sorted by 1990 commodity codes)**

<b><u>1990 Commodity</u></b>	<b><u>1989 Commodity</u></b>
3298 Wood & Resin Chem.	2861 Gum and Wood Chemicals
3299 Chem. Products NEC	2891 Miscellaneous Chemical Products
4110 Rubber & Gums	0841 Crude Rubber and Allied Gums
4150 Fuel Wood	2413 Fuel Wood, Charcoal and Wastes
4161 Wood Chips	2416 Woodchips, Staves, Molding and Excelsior
4170 Wood in the Rough	2411 Logs
.....	2412 Rafted Logs
.....	2414 Timber, Posts, Poles, Piling & Oth Wood in the Rough
.....	2415 Pulpwood Logs
4189 Lumber	2421 Lumber
4190 Forest Products NEC	0861 Forest Products, Not Elsewhere Classified
4225 Pulp & Waste Paper	2611 Pulp
.....	4024 Paper Waste and Scrap
4310 Building Stone	1412 Building Stone, Unworked
4322 Limestone	1411 Limestone Flux and Calcareous Stone
4323 Gypsum	1494 Gypsum, Crude and Plasters
4327 Phosphate Rock	1471 Phosphate Rock
4331 Sand & Gravel	1442 Sand, Gravel and Crushed Rock
4333 Dredged Material	4029 Waste and Scrap, Not Elsewhere Classified
4335 Waterway Improv. Mat	4118 Waterway Improvement Materials, Govt Materials
4338 Soil & Fill Dirt	1499 Nonmetallic Minerals, Except Fuels, NEC
4410 Iron Ore	1011 Iron Ore and Concentrates
4420 Iron & Steel Scrap	4011 Iron and Steel Scrap
4515 Marine Shells	0931 Marine Shells, Unmanufactured
4630 Copper Ore	1021 Copper Ore and Concentrates
4650 Aluminum Ore	1051 Bauxite and Other Aluminum Ores and Concentrates
4670 Manganese Ore	1061 Manganese Ores and Concentrates
4680 Non-Ferrous Scrap	4012 Nonferrous Metal Scrap
4690 Non-Ferrous Ores NEC	1091 Nonferrous Metal Ores and Concentrates, NEC
4741 Sulphur, (Dry)	1492 Sulphur, Dry
4782 Clay & Refrac. Mat.	1451 Clay, Ceramic and Refractory Materials
4783 Salt	1491 Salt
4860 Slag	3312 Slag
4900 Non-Metal. Min. NEC	1499 Nonmetallic Minerals, Except Fuels, NEC
5110 Newsprint	2621 Standard Newsprint Paper
5120 Paper & Paperboard	2631 Paper and Paperboard
5190 Paper Products NEC	2691 Pulp, Paper and Paperboard Products, NEC
5210 Lime	3271 Lime
5220 Cement & Concrete	3241 Building Cement
5240 Glass & Glass Prod.	3211 Glass and Glass Products
5290 Misc. Mineral Prod.	2951 Asphalt Building Materials
.....	3251 Structural Clay Products, Including Refractories
.....	3281 Cut Stone and Stone Products
5312 Pig Iron	3291 Miscellaneous Nonmetallic Mineral Products
5315 Ferro Alloys	3311 Pig Iron
5320 I&S Primary Forms	3318 Ferroalloys
5330 I&S Plates & Sheets	3314 Iron and Steel Ingots and Other Primary Forms
5360 I&S Bars & Shapes	3316 Iron and Steel Plates and Sheets
5370 I&S Pipe & Tube	3315 Iron and Steel Bars, Rods, Angles, Shapes & Sections
5390 Primary I&S NEC	3317 Iron and Steel Pipe and Tube
5421 Copper	3319 Primary Iron & Steel Prods, NEC Incl Rough Castings
	3322 Copper & Copper Alloys, Refined, Unrefined, Unworked

**Publication Commodity Codes Cross Reference List (continued)**  
**(sorted by 1990 commodity codes)**

<b>1990 Commodity</b>	<b>1989 Commodity</b>
5422 Aluminum	3324 Aluminum and Aluminum Alloys, Unworked
5429 Smelted Prod. NEC	3321 Nonferrous Metals Primary Smelter Prod,Wire Casting
.....	3323 Lead and Zinc Including Alloys, Unworked
5480 Fab. Metal Products	3411 Fabricated Metal Prods, Exc Machinery,Transp Equip
5540 Primary Wood Prod.	2431 Veneer, Plywood and Other Worked Wood
6134 Fish (Not Shellfish)	0911 Fresh Fish, Except Shellfish
.....	0913 Menhaden
6136 Shellfish	0912 Shellfish, Except Prepared or Preserved
6241 Wheat	0107 Wheat
6344 Corn	0103 Corn
6442 Rice	0105 Rice
6443 Barley & Rye	0102 Barley and Rye
6445 Oats	0104 Oats
6447 Sorghum Grains	0106 Sorghum Grains
6521 Peanuts	0119 Oilseeds, Not Elsewhere Classified
6522 Soybeans	0111 Soybeans
6534 Flaxseed	0112 Flaxseed
6590 Oilseeds NEC	0119 Oilseeds, Not Elsewhere Classified
6653 Vegetable Oils	2091 Vegetable Oils, All Grades; Margarine & Shortening
6654 Vegetables & Prod.	0141 Fresh and Frozen Vegetables
.....	2034 Vegetables & Preparations,Canned,Prepared & Presvd
6746 Wheat Flour	2041 Wheat Flour and Semolina
6747 Grain Mill Products	2049 Grain Mill Products, Not Elsewhere Classified
6781 Hay & Fodder	0122 Hay and Fodder
6782 Animal Feed, Prep.	2042 Animal Feeds
6811 Meat, Fresh, Frozen	2011 Meat, Fresh, Chilled, or Frozen
6817 Meat, Prepared	2012 Meat & Meat Products Prepared, Preserved or Canned
6822 Dairy Products	2021 Dairy Products, Except Dried Milk and Cream
.....	2022 Dried Milk and Cream
6835 Fish, Prepared	2031 Fish & Fish Products, Incl Shellfish,Prep & Presvd
6838 Tallow, Animal Oils	2014 Tallow, Animal Fats and Oils
.....	2092 Animal Oils and Fats, Not Elsewhere Classified
6839 Animals & Prod. NEC	0151 Live Animals (Livestock) Excl Zoo Animals,Dogs,Etc
.....	0161 Animals and Animal Products, NEC
6856 Bananas & Plantains	2015 Animal By-Products, Not Elsewhere Classified
6857 Fruit & Nuts NEC	0132 Bananas and Plantains
6858 Fruit Juices	0131 Fresh Fruit
6861 Sugar	2039 Fruit, Fruit & Vegetable Juices Canned,Prep,Presvd
6865 Molasses	2061 Sugar
6871 Coffee	2062 Molasses
6872 Cocoa Beans	0133 Coffee, Green and Roasted (Including Instant)
6885 Alcoholic Beverages	0134 Cocoa Beans
6887 Groceries	2081 Alcoholic Beverages
6888 Water & Ice	2094 Groceries
.....	2095 Ice
6889 Food Products NEC	4111 Water
6891 Tobacco & Products	2099 Miscellaneous Food Products
.....	0121 Tobacco, Leaf
6893 Cotton	2111 Tobacco Manufactures
6894 Natural Fibers NEC	0101 Cotton, Raw
	2212 Textile Fibers, Not Elsewhere Classified

**Publication Commodity Codes Cross Reference List (continued)**  
**(sorted by 1990 commodity codes)**

<b><u>1990 Commodity</u></b>	<b><u>1989 Commodity</u></b>
6899 Farm Products NEC	0129 Field Crops, Not Elsewhere Classified
.....	0191 Miscellaneous Farm Products
7110 Machinery (Not Elec)	3511 Machinery, Except Electrical
7120 Electrical Machinery	3611 Electrical Machinery, Equipment and Supplies
7210 Vehicles & Parts	3711 Motor Vehicles, Parts and Equipment
7220 Aircraft & Parts	3721 Aircraft and Parts
7230 Ships & Boats	3731 Ships and Boats
7300 Ordnance & Access.	1911 Ordnance and Accessories
7400 Manufac. Wood Prod.	2491 Wood Manufactures, Not Elsewhere Classified
7500 Textile Products	2211 Basic Textile Products, Except Textile Fibers
.....	2311 Apparel & Other Finished Textile Products, Inc Knit
.....	2823 Synthetic (Man-Made) Fiber
7600 Rubber & Plastic Pr.	4022 Textile Waste, Scrap and Sweepings
.....	2822 Synthetic Rubber
.....	3011 Rubber and Miscellaneous Plastic Products
7800 Empty Containers	4119 Empty Containers
7900 Manufac. Prod. NEC	2311 Apparel & Other Finished Textile Products, Inc Knit
7900 Manufac. Prod. NEC	2511 Furniture and Fixtures
.....	2711 Printed Matter
.....	3111 Leather and Leather Products
.....	3791 Miscellaneous Transportation Equipment
.....	3811 Instruments, Photographic/Optical Goods, Watches, Clk
.....	3911 Miscellaneous Products of Manufacturing
8900 Waste and Scrap NEC	4029 Waste and Scrap, Not Elsewhere Classified
9900 Unknown or NEC	4113 LCL Freight
.....	9999 Dept of Defense Controlled Cargo & Special Items

**Publication Commodity Codes Cross Reference List  
(sorted by 1989 commodity codes)**

<b><u>1990 Commodity</u></b>	<b><u>1989 Commodity</u></b>
6893 Cotton	0101 Cotton, Raw
6443 Barley & Rye	0102 Barley and Rye
6344 Corn	0103 Corn
6445 Oats	0104 Oats
6442 Rice	0105 Rice
6447 Sorghum Grains	0106 Sorghum Grains
6241 Wheat	0107 Wheat
6522 Soybeans	0111 Soybeans
6534 Flaxseed	0112 Flaxseed
6521 Peanuts	0119 Oilseeds, Not Elsewhere Classified
6590 Oilseeds NEC	0119
6891 Tobacco & Products	0121 Tobacco, Leaf
6781 Hay & Fodder	0122 Hay and Fodder
6899 Farm Products NEC	0129 Field Crops, Not Elsewhere Classified
6857 Fruit & Nuts NEC	0131 Fresh Fruit
6856 Bananas & Plantains	0132 Bananas and Plantains
6871 Coffee	0133 Coffee, Green and Roasted (Including Instant)
6872 Cocoa Beans	0134 Cocoa Beans
6654 Vegetables & Prod.	0141 Fresh and Frozen Vegetables
6839 Animals & Prod. NEC	0151 Live Animals (Livestock) Excl Zoo Animals,Dogs,Etc
6839 Animals & Prod. NEC	0161 Animals and Animal Products, NEC
6899 Farm Products NEC	0191 Miscellaneous Farm Products
4110 Rubber & Gums	0841 Crude Rubber and Allied Gums
4190 Forest Products NEC	0861 Forest Products, Not Elsewhere Classified
6134 Fish (Not Shellfish)	0911 Fresh Fish, Except Shellfish
6136 Shellfish	0912 Shellfish, Except Prepared or Preserved
6134 Fish (Not Shellfish)	0913 Menhaden
4515 Marine Shells	0931 Marine Shells, Unmanufactured
4410 Iron Ore	1011 Iron Ore and Concentrates
4630 Copper Ore	1021 Copper Ore and Concentrates
4650 Aluminum Ore	1051 Bauxite and Other Aluminum Ores and Concentrates
4670 Manganese Ore	1061 Manganese Ores and Concentrates
4690 Non-Ferrous Ores NEC	1091 Nonferrous Metal Ores and Concentrates, NEC
1100 Coal & Lignite	1121 Coal and Lignite
2100 Crude Petroleum	1311 Crude Petroleum
4322 Limestone	1411 Limestone Flux and Calcareous Stone
4310 Building Stone	1412 Building Stone, Unworked
4331 Sand & Gravel	1442 Sand, Gravel and Crushed Rock
4782 Clay & Refrac. Mat.	1451 Clay, Ceramic and Refractory Materials
4327 Phosphate Rock	1471 Phosphate Rock
3190 Fert and Mixes NEC	1479 Natural Fertilizer Materials, NEC
4783 Salt	1491 Salt
4741 Sulphur, (Dry)	1492 Sulphur, Dry
3271 Sulphur (Liquid)	1493 Sulphur, Liquid
4323 Gypsum	1494 Gypsum, Crude and Plasters
4338 Soil & Fill Dirt	1499 Nonmetallic Minerals, Except Fuels, NEC
4900 Non-Metal. Min. NEC	1499
3293 Explosives	1911 Ordnance and Accessories
7300 Ordnance & Access.	1911
6811 Meat, Fresh, Frozen	2011 Meat, Fresh, Chilled, or Frozen
6817 Meat, Prepared	2012 Meat & Meat Products Prepared, Preserved or Canned
6838 Tallow, Animal Oils	2014 Tallow, Animal Fats and Oils

**Publication Commodity Codes Cross Reference List (continued)**  
**(sorted by 1989 commodity codes)**

<b>1990 Commodity</b>	<b>1989 Commodity</b>
6839 Animals & Prod. NEC	2015 Animal By-Products, Not Elsewhere Classified
6822 Dairy Products	2021 Dairy Products, Except Dried Milk and Cream
6822 Dairy Products	2022 Dried Milk and Cream
6835 Fish, Prepared	2031 Fish & Fish Products, Incl Shellfish, Prep & Presvd
6654 Vegetables & Prod.	2034 Vegetables & Preparations, Canned, Prepared & Presvd
6858 Fruit Juices	2039 Fruit, Fruit & Vegetable Juices Canned, Prep, Presvd
6746 Wheat Flour	2041 Wheat Flour and Semolina
6782 Animal Feed, Prep.	2042 Animal Feeds
6747 Grain Mill Products	2049 Grain Mill Products, Not Elsewhere Classified
6861 Sugar	2061 Sugar
6865 Molasses	2062 Molasses
6885 Alcoholic Beverages	2081 Alcoholic Beverages
6653 Vegetable Oils	2091 Vegetable Oils, All Grades; Margarine & Shortening
6838 Tallow, Animal Oils	2092 Animal Oils and Fats, Not Elsewhere Classified
6887 Groceries	2094 Groceries
6888 Water & Ice	2095 Ice
6889 Food Products NEC	2099 Miscellaneous Food Products
6891 Tobacco & Products	2111 Tobacco Manufactures
7500 Textile Products	2211 Basic Textile Products, Except Textile Fibers
6894 Natural Fibers NEC	2212 Textile Fibers, Not Elsewhere Classified
7500 Textile Products	2311 Apparel & Other Finished Textile Products, Inc Knit
4170 Wood in the Rough	2411 Logs
4170 Wood in the Rough	2412 Rafted Logs
4150 Fuel Wood	2413 Fuel Wood, Charcoal and Wastes
4170 Wood in the Rough	2414 Timber, Posts, Poles, Piling & Oth Wood in the Rough
4170 Wood in the Rough	2415 Pulpwood Logs
4161 Wood Chips	2416 Woodchips, Staves, Molding and Excelsior
4189 Lumber	2421 Lumber
5540 Primary Wood Prod.	2431 Veneer, Plywood and Other Worked Wood
7400 Manufac. Wood Prod.	2491 Wood Manufactures, Not Elsewhere Classified
7900 Manufac. Prod. NEC	2511 Furniture and Fixtures
4225 Pulp & Waste Paper	2611 Pulp
5110 Newsprint	2621 Standard Newsprint Paper
5120 Paper & Paperboard	2631 Paper and Paperboard
5190 Paper Products NEC	2691 Pulp, Paper and Paperboard Products, NEC
7900 Manufac. Prod. NEC	2711 Printed Matter
3274 Sodium Hydroxide	2810 Sodium Hydroxide (Caustic Soda)
3211 Acyclic Hydrocarbons	2811 Crude Products from Coal, Tar, Petroleum & Nat Gas
3219 Other Hydrocarbons	2811
3283 Coloring Mat. NEC	2812 Dyes, Organic Pigment, Dyeing & Tanning Materials
3220 Alcohols	2813 Alcohols
3281 Radioactive Material	2816 Radioactive & Associated Materials, Including Waste
3212 Benzene & Toluene	2817 Benzene and Toluene, Crude and Commercially Pure
3272 Sulphuric Acid	2818 Sulphuric Acid
3230 Carboxylic Acids	2819 Basic Chemicals & Basic Chemical Products, NEC
3240 Nitrogen Func. Comp.	2819
3250 Organo-Inorgan Comp	2819
3260 Organic Comp. NEC	2819
3273 Ammonia	2819
3275 Inorg Elem, Oxides, & Halogen Salts	2819
3276 Metallic Salts	2819
3279 Inorganic Chem. NEC	2819
3286 Plastics	2821 Plastics, Cellulose & Resins, Film, Sheeting, Laminate
7600 Rubber & Plastic Products	2822 Synthetic Rubber

**Publication Commodity Codes Cross Reference List (continued)**  
**(sorted by 1989 commodity codes)**

<b>1990 Commodity</b>	<b>1989 Commodity</b>
7500 Textile Products	2823 Synthetic (Man-Made) Fiber
3284 Medicines	2831 Drugs (Biological Prod,Medicinal Chem,Pharmaceut)
3285 Perfumes & Cleansers	2841 Soap,Detergents & Cleaning Preps,Perfume,Cosmetics
3282 Pigments & Paints	2851 Paints, Varnishes, Lacquers, Enamels & Allied Prod
3298 Wood & Resin Chem.	2861 Gum and Wood Chemicals
3110 Nitrogenous Fert.	2871 Nitrogenous Chemical Fertilizers, Except Mixtures
3130 Potassic Fert.	2872 Potassic Chemical Fertilizers, Except Mixtures
3120 Phosphatic Fert.	2873 Phosphatic Chemical Fertilizers, Except Mixtures
3291 Pesticides	2876 Insecticides,Fungicides,Pesticides & Disinfectants
3190 Fert. & Mixes NEC	2879 Fertilizers and Fertilizer Materials, NEC
3292 Starches,Gluten,Glue	2891 Miscellaneous Chemical Products
3297 Chemical Additives	2891
3299 Chem. Products NEC	2891
2211 Gasoline	2911 Gasoline, Including Additives
2211 Gásoline	2912 Jet Fuel
2221 Kerosene	2913 Kerosene
2330 Distillate Fuel Oil	2914 Distillate Fuel Oil
2340 Residual Fuel Oil	2915 Residual Fuel Oil
2350 Lube Oil & Greases	2916 Lubricating Oil and Greases
2429 Naphtha & Solvents	2917 Naphtha, Mineral Spirits, Solvent, NEC
2430 Asphalt, Tar & Pitch	2918 Asphalt, Tar and Pitches
1200 Coke	2920 Coke, Including Petroleum Coke
2540 Petroleum Coke	2920
2640 Liquid Natural Gas	2921 Liquified Petroleum Gases,Coal Gas,Nat Gas/Liquid
5290 Misc. Mineral Prod.	2951 Asphalt Building Materials
2410 Petro. Jelly & Waxes	2991 Petroleum and Coal Products, NEC
2990 Petro. Products NEC	2991 Petroleum and Coal Products, NEC
7600 Rubber & Plastic Pr.	3011 Rubber and Miscellaneous Plastic Products
7900 Manufac. Prod. NEC	3111 Leather and Leather Products
5240 Glass & Glass Prod.	3211 Glass and Glass Products
5220 Cement & Concrete	3241 Building Cement
5290 Misc. Mineral Prod.	3251 Structural Clay Products, Including Refractories
5210 Lime	3271 Lime
5290 Misc. Mineral Prod.	3281 Cut Stone and Stone Products
5290 Misc. Mineral Prod.	3291 Miscellaneous Nonmetallic Mineral Products
5312 Pig Iron	3311 Pig Iron
4860 Slag	3312 Slag
2990 Petro. Products NEC	3313 Coke(coal & petroleum), petroleum pitches and asphalts, and naptha and solvents
5320 I&S Primary Forms	3314 Iron and Steel Ingots and Other Primary Forms
5360 I&S Bars & Shapes	3315 Iron and Steel Bars,Rods,Angles,Shapes & Sections
5330 I&S Plates & Sheets	3316 Iron and Steel Plates and Sheets
5370 I&S Pipe & Tube	3317 Iron and Steel Pipe and Tube
5315 Ferro Alloys	3318 Ferroalloys
5390 Primary I&S NEC	3319 Primary Iron & Steel Prods,NEC Incl Rough Castings
5429 Smelting Prod. NEC	3321 Nonferrous Metals Primary Smelter Prod,Wire Casting
5421 Copper	3322 Copper & Copper Alloys, Refined,Unrefined,Unworked
5429 Smelting Prod. NEC	3323 Lead and Zinc Including Alloys, Unworked
5422 Aluminum	3324 Aluminum and Aluminum Alloys, Unworked
5480 Fab. Metal Products	3411 Fabricated Metal Prods, Exc Machinery,Transp Equip
7110 Machinery (Not Elec)	3511 Machinery, Except Electrical
7120 Electrical Machinery	3611 Electrical Machinery, Equipment and Supplies
7210 Vehicles & Parts	3711 Motor Vehicles, Parts and Equipment
7220 Aircraft & Parts	3721 Aircraft and Parts

**Publication Commodity Codes Cross Reference List (continued)**  
**(sorted by 1989 commodity codes)**

**1990 Commodity**

7230 Ships & Boats  
7900 Manufac. Prod. NEC  
7900 Manufac. Prod. NEC  
7900 Manufac. Prod. NEC  
4420 Iron & Steel Scrap  
4680 Non-Ferrous Scrap  
7500 Textile Products  
4225 Pulp & Waste Paper  
4333 Dredged Material  
8900 Waste and Scrap NEC  
6888 Water & Ice  
9900 Unknown or NEC  
9900 Unknown or NEC  
0300 Passengers  
0200 Vehicles  
0200 Vehicles  
0200 Vehicles  
4335 Waterway Improv. Mat  
7800 Empty Containers  
9900 Unknown or NEC

**1989 Commodity**

3731 Ships and Boats  
3791 Miscellaneous Transportation Equipment  
3811 Instruments, Photographic/Optical Goods, Watches, Clk  
3911 Miscellaneous Products of Manufacturing  
4011 Iron and Steel Scrap  
4012 Nonferrous Metal Scrap  
4022 Textile Waste, Scrap and Sweepings  
4024 Paper Waste and Scrap  
4029 Waste and Scrap, Not Elsewhere Classified  
4029  
4111 Water  
4112 Misc Shipments not Identifiable by Commodity  
4113 LCL Freight  
4114 Passengers Only  
4115 Transported Vehicles (E.G. Ferried Autos)  
4116 Railway Cars (Loaded)  
4117 Railway Cars (Empty)  
4118 Waterway Improvement Materials, Govt Materials  
4119 Empty Containers  
9999 Dept of Defense Controlled Cargo & Special Items

# REPORT DOCUMENTATION PAGE

*Form Approved  
OMB No. 0704-0188*

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

<b>1. AGENCY USE ONLY (Leave blank)</b>			<b>2. REPORT DATE</b> December, 1994		<b>3. REPORT TYPE AND DATES COVERED</b> Annual      1/1/90 – 12/31/90		
<b>4. TITLE AND SUBTITLE</b> Waterborne Commerce of the United States Calendar Year – 1990 Part 3 Waterways and Harbors, Great Lakes			<b>5. FUNDING NUMBERS</b>				
<b>6. AUTHOR(S)</b>  Department of the Army Corps of Engineers							
<b>7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)</b> U. S. Army Corps of Engineers Waterborne Commerce Statistics Center P.O. Box 61280 New Orleans, LA 70161			<b>8. PERFORMING ORGANIZATION REPORT NUMBER</b> 1990 WCUS, Part 3				
<b>9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)</b> Office, Chief of Engineers, U.S. Army Corps of Engineers, Pulaski Bldg. 20 Massachusetts Ave., N.W. Washington, D.C. 20314-1000			<b>10. SPONSORING/MONITORING AGENCY REPORT NUMBER</b>				
<b>11. SUPPLEMENTARY NOTES</b> Available from: National Technical Information Service (NTIS) 5285 Port Royal Road Springfield, VA 22161							
<b>12a. DISTRIBUTION/AVAILABILITY STATEMENT</b>  Unclassified/Unlimited			<b>12b. DISTRIBUTION CODE</b>				
<b>13. ABSTRACT (Maximum 200 words)</b> Waterborne Commerce of the United States (WCUS), Part 3, Calendar Year 1990, is one of a series of five (5) publications containing statistics on the commercial movement of foreign and domestic cargo. WCUS, Part 3, presents detailed data by commodity and traffic for the waterways and harbors of the Great Lakes. The statistics include commodities given in short tons (2000 lbs) and vessel trips for the harbors and waterways.							
<b>14. SUBJECT TERMS</b> Waterborne Commerce Statistics, Domestic Commerce, Water Transportation, Freight Traffic, Commodity Flows					<b>15. NUMBER OF PAGES</b> 244		
					<b>16. PRICE CODE</b>		
<b>17. SECURITY CLASSIFICATION OF REPORT</b> Unclassified		<b>18. SECURITY CLASSIFICATION OF THIS PAGE</b> Unclassified		<b>19. SECURITY CLASSIFICATION OF ABSTRACT</b> Unclassified		<b>20. LIMITATION OF ABSTRACT</b> Unlimited	